REPORT

THE COMMISSIONERS

APPOINTED TO INQUIAN AMPROVEM THE

DRAINAGE OF THE DISTRICT TRAVERSED

37 T

RIVER BARROW AND ITS TRIBUTARIES,

economic way

MINUTES OF EVIDENCE AND APPENDIX.

Bresented to both Bounes of Parliament by Command of Her Mujesty.



DUBLIN:

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WARRANT appointing Communicates to inquire respecting the Drainage of the District traversed by the RIVER BARROW and its tributaries.

By the Lord Lieutenant-General and General Governor of Ireland.

SPENCER.

Whenever We have deemed it expedient that a Commission should forthwith issue to inquire respecting the Drainage of the District traversed by the River Barrow and its tributaries, and to report to us on the following matters, viz. :

I. The extent and present value of the lands injured by the floods of the Barrow and its tributaries, and the probable increase in the value of those lands, if relieved from the injurious effects of floods

II. The best means, practicable, for confining the flood waters to the channel of the

river, and thereby removing the injurious effects of the floods,

III. The cost at which such measures could be carried out.

IV. Whether the works could be profitably undertaken by the proprietors of the flooded lands, under the provisions of the Drainage Acts. V. Whether the works for the relief of the lands flooded by the Barrow and its

tributaries should be carried out as one project—or whether the river Barrow itself should be first separately dealt with, and the drainage of the tributaries left to be subsequently carried out, under the provisions of the Drainage Acts.

VI. How the funds necessary for the works should be provided. VII. If the finds should be provided by a loan of public money, whether, in consideration of sanitary or other benefits to be derived from the drainage, the towns situated on the river, or the district at large, independent of the lands directly benefited

should bear any portion of the charge in repayment of the loan. VIII. Whether the works could in any way injuriously affect the Barrow Navigation or the lands below the down stream limits of the work.

Now WE, JOHN POTETE, EARL SPENCER, Lord Licutement-General and General Governor of Ireland, do hereby nominate, constitute, and appoint you-

Bennard Edward Barnaut, Baron Castletown, of Upper Ossory.

The Right Honorable Hanny BRUEN. Colonel Sir Jonx M'KERLIE, K.C.B.

Colonel HENRY DANIEL CARDEN. J. A. Cassidy, Esquire.

HUMPHRY SMYR, Esquire, and RICHARD HASSARD, Esquire, C.E.,

to be Commissioners for the purpose of the said inquiry. And for the better enabling you to make the said inquiries, We do by these presents authorize and empower you, or any three or more of you, to call before you, or any three or more of you, such persons as you may judge necessary, by whom you may be the better informed of the matters herein submitted for your consideration, and every matter connected therewith, and to inquire of and concurning the premises by all lawful ways and means whatsoever, and also to call for and examine all such books, documents. papers or records, as you shall judge likely to afford you the fullest information. and to inquire of and concerning the premises by all lawful ways and means whatsoever.

And We do further by these presents authorize and empower you, or any three or more of you, to visit and personally inspect, such places as you may deem expedient for the more effectual carrying out of the purposes aforesaid.

And We do turther require you, or any three or more of you, with as little delay as possible, to report to us upon the matters referred to you as aforesaid, and also to certify to us from time to time your several proceedings in respect to the matters aforesaid as it may seem expedient for you so to do.

And we further order and direct that this our Commission shall continue in full force

and virtue, and that you our said Commissioners, or any three or more of you, shall and may, from time to time, proceed in the direction thereof, and of every matter and thing therein contained, although the same he not continued from time to time by And for the purpose of aiding you in such matters, We hereby appoint JAMES PRENT,

Esq., C.R., to be the Secretary to the Commission. Given at Her Majesty's Castle of Dublin, this 30th day of March, 1885.

By His Excellency's Commands, W. S. B. KAYR. (Signed.)

o 2

Chief Secretary's Office, Dublin Castle, 16th April, 1885.

Str,

With reference to your appointment as Secolary to the Barrow Draings, Cammission, I can directed by the Lord Leientant to respons that you will inform the Commissioners that it is III. Excellency's wish that prangraph 6 of the instruction annotated in their Warrant of appointment, may be held to authorist them to imprie amongst other matters, whether the property invasted in Mills on the river could be interiorally affected by the works of derinage.

I am, at the same time, to request that you will be so good as to state whether the Commissioners have yet entered upon their inquiry, and how soon they propose holding their first local personal inquiry into the matter.

I am,

Siz,

Your obedient servant,

(Signed,) R. G. C. HAMILTON.

James Penny, Req.,

Office of Works, Dublin.

THE BARROW DRAINAGE COMMISSION.

REPORT.

TO HIS EXCELLENCY JOHN CAMPBELL GORDON EARL OF ABERDEEN.

LORD LITUTENANT-SECTION AND GENERAL GOVERNOR OF INCLAND.

MAY OF PERSON YOUR EXCULUSION,

We the Commissioners appointed under the Warrant of your Excellency's predecessor, Earl Spenou, s.o., directing us to make inquiry "respecting the drainage of the district traversed by the river Barrow, &c., have now the honour to lay hefore your Excellency the following Report of the proceedings taken by us in pursuance of our instructions, the facts we have ascertained, and the opinion we have formed with respect to the several points to which our attention is directed, and in conclusion to offer such recommendations as the circumstances of the case seem to us to warrant.

As a first step in our proceedings we considered it necessary that we should be furmished with a copy of the general map of the district, showing the course of the main river and its several trihutaries, and the lands injured by the floods, to which it is periodically subject, which we were aware had, by directions of the Government, been prepared by the Board of Works, and also with a copy of the Report of the Board's engmeer, with regard to the works necessary to give a free discharge to the flood waters, and onesoquent relief to injured lands, together with an estimate of the cost of those works, which had also home directed to be prepared.

It was felt to be equally necessary that we should be supplied with a copy of the valuation in detail of the hencit which would be probably derived from the now injured lands heing secured against future liability to being flooded in the event of the works of improvement heing carried out, which we were also aware had been made.

For these maps and documents we accordingly made application to the Board of Works, and having hear furnished with them proceeded to enter on our inquiry, holding our first meeting in Duhlin on the 22nd June. At that meeting we received from Mr. FitzGerald (the valuator employed by the

Board of Works, to survey and value the injured lands of the district with reference to their contemplated improvement by drainage), an explanation of the principles on which he had based his valuation, and also in regard to details and the extent to which

the results be had arrived at might be relied on.

e results no man arrived at magne be remou on. We also received from Dr. F. X. MacCahe, formerly Medical Inspector under the Local Government Board, a statement of his views—the result of his experience—in regard to the haneful effects to the public health, resulting from prolonged and widespread floods, in districts subject to such outlingencies, and the malarious exhalations arising on their subsidence, and on the henefits which must follow from Montage the flooding and saturation being removed by drainage works

Further meetings were also held on the 24th and 25th of the same month, at which Mr. Manning, Chief Engineer to the Board of Works, was examined in regard to the general character of the Barrow District, the extent and duration of the flooding to which it is subject, and the nature and sufficiency of the works designed by him for 13, affording rebirf, and the cost at which he estimated these works could be carried out.

These inquiries in Dublin were followed up by holding meetings within the limits of Manning's the district, viz., at Philipstown, King's County, on the 8th July; at Mountmellick, Amendic

Queen's County, on the 10th July; at Portarlington, King's County, on the 17th July; at Monasterovan, County Kildare, on the 21st July, and at Athy on the 28th July with the object of ascertaining the views and opinions of the persons locally interested, and who were invited by public advertisement to come forward, notice at the same time of copies of the plans, reports, and valuation schedules being deposited in convenient places for their inspection and information. A further meeting was also held at Carlow on the 29th July, for the purpose of

affording an opportunity to the Barrow Navigation Company, and the Mill-owners and others interested in the regimen of the river helow Athy (the point at which it is proposed the works of the Drainage District should terminate), of stating their objections (of which they had given notice) and explaining the grounds on which they apprehended injurious consequences to their several interests if the works as proposed were carried

The evidence given in regard to this important question will be found in the Minutes of Evidence.

The general character of the drainage area, or catchment hasin of the District traversed by the River Barrow, to which our inquiry is practically, so far as drainage is concerned, confined, is generally flat, the exception being on the western side, where the main river has its source in the Slieve Bloom Mountains, which attain a considerable elevation Regarded as a separate drainage district, it must be considered one of the most

important in Ireland, whether in respect of its position and attendant circumstances, or the extent of its drainage area and of the lands flooded and injured.

With reference to the important consideration of the public health involved in the projected measure, there can be no doubt of the great benefit which would accrue, not only within the area of the lands immediately affected, but to a wide extent heward embracing, perhaps, nearly the whole drainage district

The evidence of Dr. MacCahe, as well as of the local medical practitioners, sanitary authorities, and other observant persons, conclusively testify to the haneful con-sequences resulting, both in town and country, from the long-continued floods and the malarious vapours arising on their subsidence, and during the drying up of the

With regard to the apprehended effect of the drainage works in bringing down such an increased volume of water in such rainfalls as now produce floods, and in eausing a diminished flow in dry weather, as would be prejudicial to the Barrow navigation, and also to the milling and other interests, on the River below Athy, we hog to refer to the evidence-professional and non-professional-brought forward on behalf of the parties concerned, and to the statement made by Mr. Manning, the opinion we have arrived at heing given in our hereinafter observations in reply to the special reference to us on this point.

The important consideration of the feelings with which the proposed drainage is regarded by the different classes of persons or interests affected, now only remains to be

Both the owners and occupiers of the flooded and injured lands, whatever may be the objections they have, or may put forward in their individual cases, may be said to be nearly unanimous in its favour, though it is urged on hehalf of the former, the owners, while the responsibility with regard to the drainage charges, as well as the maintenance of the works, would under the Drainage Acts now in force, fall entirely on them, and all risk of loss he theirs, the latter in the position they now hold in regard to their otoupancy of the lands would enjoy the entire henefit to be derived whatever it might be, both present and prospective, and therefore it has in several instances been declared, and doubtless would be so in many others, that they, the owners, would not, under such circumstances, he disposed to give their assent to the drainings being proceeded with. The inhabitants of the district generally, and more especially the residents in the

towns, appear, as far as we had an opportunity of judging, to he strongly in favour of the measure. The Barrow Navigation Company also and the millers, and others holding valuable interests on the River below Athy, while seeking to protect their property from the

injury which they apprehend may result from the drainage operations, yet tully Sec Mianten acknowledge the public advantage which the drainage would confer, and beyond guarding of Evidence,

themselves against possible loss, desire to offer no opposition to the undertaking.

We now keg to submit the conclusions at which we have arrived in the form of answer to the questions contained in the Werrant of His Excellency the Lord Lieutenant.

See Minutes

The general character

saturated lands

The Reports and Schedules furnished by Mr. Fitzgerald, acting under the instructions

The Reports and Schedules turnsmen by ser, suggested, many, and the fluid of the Board of Works, may be accepted as sufficiently accurate, as showing the area of the lands and the present and prospective value thereof. The area of the lands injured is approximately 45,552a, 1a. 7b.

The probable increase per annum in the value of those lands if relieved from the in-

The probable increase per annum in the value of cone made in relieved that the jurious effects of the floods may be estimated at 59,852 17.9 9d.
Objections were raised to the reports on the area and valuation in several instances.

Objections were raised to the reports on the area and vanishes in coveral instanton. These objections were investigated, and a full tabular statement giving all details is annexed in the appendix.

QUISTION II.

The Commissioners are of epinion that the only effectual way in which this can be carried out is by a general improvement of the outfall channels, which can be done by widening, deepening, and enhanging the bed of the rivers, or making new waterourses where necessary and advisable.

Quartos III.

The cost of the work if carried out as an entire scheme can with safety be based on Mr. Manning's estimate, as revised by Mr. Hassard, and would amount to £550,000.

Question IV.

The cost of the works being so largely in excess of the probable improved value of the lards, the Commissioners are of opinion that it would be impossible for the proprietors of the flooded area to undertake the project as a whole without great premisiry loss, and that it could not be profitably extrained out by them under the existing Drainage Acts.

than it could not be proteasory earned out by seem useed receiving presenged with the Having, therefore, regard to the protting recursateness of the case, and the diverse interests involved, agricultural, commercial, sanitary, both rural and urban, and irrespective even of the ratis of cost, it is considered by the Commissioners that the project could not be adoquately undertaken and carried out without a special fact of Parliament, andording much alsolections of the Drainage Action and other Acts as may be necessary.

OTHERTON V.

On the question show the opinions of the Commissioners are easily divergent, from the monoidering that the improvement of the chancel of the Open and Hitch Board Rivers, a portion of the Fight River from Monatorevan it is referred to the Fight River from Monatorevan it is reflected to the Fight River from Monatorevan it is reflected to the Fight River from Monatorevan it is reflected to the reflected could be observed by the reflected could be observed with subconceptually used independently to the the clue hand, to work the subconceptual could be used to the subconceptual to the subconcept

man and the primaring primaring control of the Druinage Acts.

Under that cereminators the Commissioner consider that the best method of dealing with the quotation at inne would be to recommend the introduction of a special Act of Druinant, dealing with the drainage achieves as more than the property of the drainage achieves as the property of the drainage achieves as the property of the Commissioner Hassard, ca., in his report, providing for the immediate execution of the works recommended by the moperity of the Commissioner: and that the Act the works recommended by the moperity of the Commissioner:

whose, but extended in and about Alby, in accordance with an engagesisse made by Mr. Commissioner Blaussel, care in the report, growting first the institution consists of the works recommended to additionable the support of the proposition of the proposition of the support of the proposition interested in the definings of the interested of the whole or as subsequent and enhancing materials of the united of the whole or as subsequent and enhancing the first proposition of the support of the suppor

works with reference to the locard or where an indistribution affected affected. That it is been seen to find the distribution of any tributary district a tuillining the new cut-of any tributary district a to tillining the new cut-off any tributary district a to tillining the new cut-off which will be given by the works on the main rivers, that such district should not be considered to be contributory

to, or subject to the management of the central Board.

That any tributary district desirous to co-operate in the main scheme of works should be entitled to take such course, and thereby become immediately contributory and subject to the contributor of Management.

That should any tributary district prefer to undertake and carry out the drainage works in that district, under the provisions of the Drainage Acts, and subsequent to the main drainage works, it shall be entitled to do so, but from the date of the commencement of such works, and the utilization of the main drainage for its outfall, such district must become contributory to such general rates as may be hereinafter specified and arranged, and subject to the Board of Management in all matters having reference to the utilization of the main drainage works by that particular tributary.

QUESTIONS VI. and VII.

Those two questions may be answered simultaneously, and the Commissioners are of opinion that a grant of public money is necessary to enable any efficient scheme of drainage to be carried out. This should be in the nature partly of a loan. and partly of a subsidy or gift from the public purse. They have arrived at this

conclusion, for the following reasons: lst. The granting of such aid would not he without precedent as instanced in connexion with the improvement of the River Sasanon, and also in many cases of Drainage Districts, carried out under the Act of 1842 (5 and 6 Vic., cap. 89), and subsequent amending Acts, though in these cases the grant took the form of a remission, after the completion of the works, on special inquiry by the Treasury under the authority of Parliament. It may be observed, however, that these remissions cannot be regarded as entailing a less to the public, for it cannot be doubted that the drainage of those

Districts conferred a great public benefit. 2nd. Whatever may be the improvement rates capable of being levied off the whole district, their aggregate amount capitalized, would full so far short of the necessary expenditure as to render it impossible to proceed with the undertaking, unless the loan

were assisted by a special subsidy of public money. 3rd. The unsanitary condition of the flooded district, and the towns situated in it. as disclosed by the evidence tendered to the Commissioners, justifies, in their comion a legitimate expenditure of public money with a view of ameliorating this state of thines. 4th. The national importance and the scale of those greater schemes of Drainage, place

them outside and above the ordinary scope and means of Dramage Boards. With reference to the repayments of the Loans on public advances and other rates. they recommend that the lands directly benefited by being relieved from the effects of

floods should contribute an annual rate as fixed in the Drainage Schedule, or us otherwise determined for such number of years as may be named in the Act to pay off principal and interest. One witness, to whose authority the Commissioners attach great weight, recommended that part of the expense of carrying out the scheme should be home by a general rate levied on all the lands within the district comprised in the watershed and contributing

water to the outfall. The question, however, did not appear to have attracted the attention of those generally interested, and little other evidence was given upon it. There is much to be said in support of this proposition, and it has met with favour in the Report of the Select Committee of the House of Lords on Conservancy Boards, dated 24th July, 1877; but it has never been adopted by the Legislature, and the introduction of this new principle into Drainage Legislation would require much consideration. of the authorities or people in the towns visited to a special rate being levied on the towns, to meet such proportion of the cost of the undertaking as may be considered

a fair charge for the improvement in their sanitary condition which they would undoubtedly derive, and which is (as has been stated above) very bad indeed They therefore recommend such special tax being allocated to the towns as supple mentary to the ordinary drainage rate.

QUESTION VIII.

The general evidence went to show that some additional flooding of lands and property on the Lower Barrow might be anticipated from the increased volume of water sent down from the upper district consequent on the proposed works, but this injury if found to occur, can be obviated by removing existing obstructions and providing additional waterway where necessary It may however he requisite to take down and rebuild some of the public road hridges over the river, and in such cases, a portion at least of the cost, should be contributed

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by the adjoining counties.

The Commissioners are further of opinion, that some clauses should be introduced into the apecial Act to ensure for the future that such new works should be efficiently maintained, and that the channels of the Lower Barrow should be kept properly open and free from obstructions by the Barrow Navigation Company.

minimation, one of the designation and free from obstructions by the Barrow Navigation Company.

The Commissioners are also of opinion that the interests of the Barrow Navigation Company will not be appreciably affected by the construction of the proposed new works of arterial drainage.

CASTLETOWN,
or Uree Obsort.
HENRY BRUEN.
J. G. M'KERLIE.
H. D. CARDEN.
J. A. CASSIDY.
HUMPHRY SMITH.

RICHARD HASSARD.

JAMES S. PENNY, Secretory. 12th Pobragry, 1886.

MEMORANDUM ON QUESTION VIII.

The Commissioners found great difficulty in dealing with this question, the specialistevidence photod before them being consevhat divergent and condition. The other Commissioners were, however, meet ideal to their deductions of the Commissioner Web, Commissioners Web, Commissioners and the making on his most valuable options and confully considered responsant and strice that their assevant to this particular question are formulated.

CASTLETOWN, OF UPPER OBSORT.

DISSENT

I regret to be unable to concur with the majority of the members of the Commissioners in regard to the manner in which it is deemed expedient that the Drainage of the Barrow District should be carried out as more particularly referred to in Quastion V.

The reasons for my dissent are these, viz :-

1st. In confining the works to be undertaken—as a determinate measure—to the Main River, as proposed, and under which arrangement, in order to provide for the opening up of the tributaries, the works must be carried out on the full scale for the whole district, the proper part of the oos (debut two-fields) for the entire deriange scale and the district, while probably a still greater proposeries of the deficiency to the contract of the contract of the deficiency to an extract the contract of the contract of the contract of the deficiency to an account to be charged against the improvement of the land, would also be an attendant

result:

2nd. In leaving it optional with those interested in the tributaries to undertake
the works necessary for the relief and improvement of the hads on those tributaries,
either at some future period as separate district, or to assent to their being undertaken
in connection with the Main River operations, it would be by no means certain that they
would be undertaken at all.

would be undertaken at all.

This would more especially be the case where postponement is determined on, as in
the majority of cases, the cost would probably be found to be so much in excess of the

the majority of cases, the cost would probably be found to be so much in access of the value of the benefit to be derived (from the improvement of the lunds) as to reeder it highly improbable that the measures would be proceeded with unless aid were forthcoming from outside sources.

2d In oversting on the tributation of the common of

3rd. In operating on the tributaries as separate districts under separate, and, in a great measure—as must needs be—independent Boards, serious complications and difficulties could hardly fail to arise, both in regard to the general management and in affecting the established regimen (by deposition of sile, &a) of the Main River channels.

affecting the established regimen (by deposi assumed to have been previously completed.

40. It heir appears that without the six of large contributions, but from the minings axes in its unitrity probably, and from the public at large, it is broaden to entire the six of the s

results, than if sub-divised and undertaken piecemeal at future periods, probably resucces, and under different authorities.

My ominion is that in the general interests, local as well as public, it is most desirable

say opinion as and in the general interests, local as well as public, it is most desirable that the draitings of the district should be carried out as one complete and comprehensive measure.

I feel it my duty also further to observe, with reference to question of looking for a

I lead in yor dray also further to observe, with references to quantize of looking for a charged against the look discretely destroy beautiful root to adjusted districtly which the drainings beauti, that lawring regord to the unquestionable bounds which districtly beautiful root of the support of the support of the property of the property of the property of the contract of the contract of the improvement is long and same senter gathering of the contract to the interaction man of employment to make the contract of the employment to the contract of the contract of the contract of the contract of the employment to the contract of the contract of the contract of the contract of the employment to the contract of the property of the contract of the contract of the property of the property of the contract of the property of the property of the contract of the property of the property of the contract of the property of the property of the contract of the property of the contract of the contract of the property of the contract of

J. G. M'KERLIE

18th February, 1886.

REPORT.

DISSENT WITH RESPECT TO QUESTION No. 5.

I reluctantly differ from the opinion arrived at by the majority of the Commis-

sioners, for the following reasons:—
Independently of the advantage to the locality, in a smiltary point of view, of buring the number of the simulation of the main cutfall, is still so great as to reader it interactions the theorem of the simulation of the main cutfall, is still so great as to reader it interaction to the simulation of the main cutfall, is still so great as to reader it interaction the that those miner overst could be understance by the proprietors, unless mineractionable that those miner overst could be understance by the proprietors, unless mineractionable that those miner overst could be understance by the proprietors, unless mineractionable that those miner overst could be understance by the proprietors, unless mineraction of the simulation of the simula

largely assisted by public namery, as in the case of the Main Ervers.
Takes, for instance, the Similability, Pirrogers, and Kylo Krevar, tributaries to the Great
Takes, for instance, the Similability, Pirrogers, and Kylo Krevar, tributaries to the Great
Parver. The parvers works, according to Mr. Manning's entitude, being £12,960, and
adding 15 per cost. to this to assimilate it to the revised entitudes badoped by the
Commissioners, gives \$44,904, or on an average of local 18 in 4,46 per serv. Mr.

Commissioners, green 2-15, 2005, and as a second of the first part of the first part

5s. Id. per acre. The Figile River would have 5,738 acres relieved from flood at a cost of £56,088, or with 15 per cent. added, of £64,500, or £11 4s. 9d. per acre. Mr. Fitzgerald's estimate with 15 per cent. added, of £64,500, or £11 4s. 9d. per acre.

with 15 per cent, added, of £64,500, or £11 as 9a, per acre. ar, Friegerian a standard of improved value issuing 5a 16a, per acre. The Cushins, Slate, and Philipstown Rivers, tributary to the Figlis, would have a joint area of 6,421, acres relieved from flood at a cost of £38,214, adding as before 15

pose series 9.5% (1934) 10a, or an average of a 15 to 5 d. or see. Mr. Fitzgerald's potential property of the property of the

Maning a summard, and the state of improved value being about 5, 64 per sere, of improved value being about 5, 64 per sere, of improved value being about 5, 64 per sere, which would be unwatered by only 5,933 acres, and adding to this about 3,000 acres, which would be unwatered by sere at structing an outfall from Monasterevan to the junction, with the Figlie of the Silter and structing an outfall from Monasterevan to the junction, with the Figlie of the Silter and structing an outfall from Monasterevan to the junction, with the Figlie of the Silter and structing an outfall from Monasterevan to the junction, with the Figlie of the Silter and structing and other structures.

the shift filtered, including the first sure as situated on the rithesteries.

Of this has a smooth was a well have so, the only portion of the works which could, of this has a smooth was a well have so, the only portion of the works which could, with any prospect of recognizate, be understoon by the proprieties, as the 5,658 anexes, situates on the Primary, Kilmeny, and Lighty-time probability-indeed, almost amount of which cannot be a smooth of the country of the man country of the country of the country of the country of the man country of the country

Under these circumstances the undertaking would, of course, be of comparatively little public henefit, and would present the unusual feature of one part of the district reseiving State aid, withhold from other portions equally in need of it.

RICHARD HASSARD.

13th February, 1886,



MEETINGS OF THE COMMISSIONERS.

FIRST DAY .- THURSDAY, APRIL 23cm 1885.

At a meeting of the Commissioners held this day at their offices, 14, Castle-street-

Procest :—Lord Cartiacoura (Chalman), the Right Hodowhlo Hierier Britis, Colonel Sir John M'Kerlas, Edit, Colonel H. D. Conney, Mr. J. A. Camer, Mr. Hohriner Serris, and Mr. Richards Harrano, cu.:

The Lord Lieuteness's warrant was read. Arrangements were made as to the mode of procedure. The mosting adjustmed until sampled with the Valuation Storrey and Engineer's Report.

SECOND DAY .-- MONDAY, JUNE 22sh, 1885.

Protest :-- Lord Carmarows (Chaleman), the Bight Honorable Huster Barner, Colonel Sir Jone M'Kusmu, R.C.L., Mr. J. A. Casarov, and Mr. Hunymay Stays; with Mr. Janua S. Perst, C.R., Sorrebary.

The Right Honorable Henry Broez was unsulmously cheeked Vico Chairman. Evidence taken as to the surveyed seen and amount calculation of the highest banks, and their probable increase in value when relieved from the injurious effects of floods. Also se to the general senionry state of the district.

THIRD DAY .- WEDNESDAY, JUNE 24vs, 1885.

Protest :- The Right Honorable History Burnes (Vice Chaurson), Columb Sir Joses M'Kranes, s. c.n., Mr. J. A. Cassilly, Mr. Hundery Smith; with Mr. James S. Penny, Co., Secretary. Evidence taken as to the weaks designed for confining the food waters to the channel of the river, for the purpose of removing the effects of injurious foods.

FOURTH DAY .- THURSDAY, JUNE 2570, 1885. Process .- The Right Honorable Harter Barrer (Vice-Chairman), Colonel Sir John M Kentra, E.C.R., Mr. J. em. — ide ande rescuere discret deues (*100-leadings), l'embre de 1618 et al. Elle S. Pesty, Ce., A. Cardov, Mr. Horymey Sony, and Mr. Richerd Habrido, Cr.; with Mr. Jame S. Pesty, Ce.,

Reidence taken on the same subject as at previous meeting.

FIFTH DAY,-WEDNESDAY, JULY 8rs, 1885.

At a meeting of the Commission hold this day at the Court House, Philipstown Present :- The Bight Henocable Harart Banus (Vice Chairman), Colonel Sir Jone M'Kanun, u.c.s., Mr. J.

A. Cardy, Mr. Hoffer Suite, and Mr. Richard Hassid, Co.; with Mr. Jares S. Peter, C.L. Socretary.

Evidence taken as to the valuation of the injured lands.

SINTH DAY .- WEDNESDAY, JULY 10rs, 1883. At a meeting of the Commission held this day at the Court Hoose, Mountmellick-

Franci, —The Right Horocalle Heavy Russes (Vice Castranas), Coloral Ry Jean Wikaman, K.Ch., Coloral H. D. Castras, M. J. A. Castras, M. Housens Sarra, and Mr. Rockers, Haradas, Ch. J. with Mr. J. Jones S. Pravey, Ch., Soroday.

Evidence taken to objections made as to the valuation of the injured lands, and also to the excitary state of the town and the surrounding district.

SEVENTH DAY.-FEIDAY, JULY 17th, 1885.

At a meeting of the Commission held this day at the Court Henre, Portsellington...

Present :- Leed Correspons (Chairman), the Right Honorable Hours Birms (Vice-Chairman), Colond Sir Jone McKimira, Kora, Mr. J. A. Changey, Mr. Honoraby Surra, and Mr. Richino Hamann, CR.; with Evaluace taken to objections made to the valuation of the injured hands; also to the souttery state of the town and the amounding district.

EIGHTH DAY.-TUESDAY, JULY 21st, 1885. At a meeting of the Commission held this day at Monasterovan.-

Precest :—The Eight Househld Hunay Bruns (Vice Cadman), Colonal Sir Joser M.Kualin, R.C.R., Colonal H. D. Carses, Mr. J. A. Casser, and Mr. Housen-Hossen, CE; with Mr. James S. Parser, CE, Secretary.

Secretary.

Evidence taken to objections made to the valuetien of the injured lands. Also as to the scaling state of the town, and Percardington, and the surrounding districts.

NINTH DAY.—TUESDAY, JULY 2816, 1885,

At a meeting held this day at the Court House, Athy-

Persont — Lost Outerweene (Columnus); the Bight Rosenble Havan Disray, (Vine-Chairman); Column Six Faren Kikama, Kach; Column J. D. Gure, G. Resenber, M. Rosenber Stern, and Mr. Rosenas Hassano, Car, with Mr. Janes S. Parry, Car, Serring.

Bridgers below to deplectors and so the visuation of the highest had any rull as the acting red the two and the numerous deplector and so the visual cells the highest had so will all the deplector of the two and the numerous district. Also as to the salid-pixel define below the down-steam limits of the repressive works, which sternians a describations below Adly to the Barrow market.

TENTH DAY.-WEDNESDAY, JULY 29rs, 1885.

At a meeting of the Germinsten held this day at the Court Henne, Coulow--Frencet.--The Right Househld Harm: House, (Yiso Chairman); Colonel Sir Josse M'Kemin, Lou; Mr. J. A. Cassers, Mr. Ricermin Surra, and Mr. Richand Hassano, C.L., with Mr. James S. Persy,

Evitance taken as to the anticipated injurious effect of the proposed works to the Barrow Navigotian,
following, and other interests.

ELEVENTH DAY.—FRIDAY, AUGUST 7:21, 1885.

At a mosting of the Commissioners hold thin day at their offices, 14, Conto-street—

Printed — Leel Garraneouv (Cheirman); the Right Henerable Hester Bartts, (Vice-Cheirman); Colonal So Jose Wilkhatter, as., declared H. D. Casters, Mr. J. A. Casters, and Mr. Richtan, Hassen, etc., with Mr. James S. Pestr, etc., Services,

Evidence taken to adjections used: by persons interested who could not attend at the local centres, as to the relaxation of the thirteed lands. Evidence also taken us to the anticipated higherious effect of the proposed works to the milling and other interests below the fluids of the proposed work.

TWELFTH DAY.—WEDNESDAY, OCTOBER 2878, 1885.

Primit — Leef Castleroves (Chairman); Celcoel Se Four M'Kritin, R.Ch.; Celcoel H. D. Carner, Mr. J. A. Camur, and Mr. Eccuair Hassan, or a, with Mr. Jame S. Pener, c.e., Secretary.

The ensideration of the report of Mr. Commondoner Houses, ca., on an examination of the review flavour within the Broom of the works proposed for reliaving the limit from infusions foods, and the cost hierard, and

THIRTEENTH DAY.-TUESDAY, NOVEMBER 1718, 1885.

Present.—Lord Carterrows (Chirasan), the Bight Honoroble Risert Blutts, (Vice-Cheirman); Coloroll Ser Joses McKeutz, E.G., Coloroll E. D. Garzes, Mr. J. A. Cautze, Mr. Huterpar Sermi, and Mr. B. Hossan, C.a. with Mr. Jaten S. Parry, ca., Secretary. Britimos taken on objection made on behalf of the Barrew Desirage Committee to the proposed works

FOURTEENTH DAY.—FRIDAY, FEBRUARY 616, 1886.

Primit — Lord Christony (Chairman); the Eigh Honsichle Hunn Bidde (Vin-Chairman); Colonel Str. Jones McKerlin, K. e. a. Colonel H. D. Carrier, Mr. J. A. Carrier, Mr. Hunner, Schur, and Mr. B. Hassano, K. e., with Mr. Janes Spring, K. Spring, K. Schur, Mr. J. A. Carrier, Mr. Hunner, and Mr. B. Hassano, K. e., with Mr. Janes Spring, The Commissioners proceeded with the consideration of a heaft Report propered by the Chairman, and mode sense enconference.

FIFTERNTH DAY _FEBRUARY 15vs, 1885.

Frencet - Lord CAPILLETONY (Chestrant); the Right Honorelde Hissey Barris (Vice Chaltusia), Octonal Sir Jony McEstudy, Lon, Colond M. D. CARDES, M. J. A. CARDOY, Mr. Hustener Sarrys, and Mr. R. Hassano, ed., with Mr. A. James S. Paters, ed., Recutary.

The Report, as it now startly, we findly objected, Octool Rr John McKerlis and Mr. R. Housed infinishing their intention to discont from the recommendations much therein, with respect to the surver to Questian V, though the form the recommendations much therein, with respect to the surver to Questian V, from Measurement of the former of the Orest and Little Berrew Rivers, a portion of the Phylic River, from Measurement to the junction with it of the Condains River, should be understant as one proceds—while the condains River of the Condains River, and the Condains River, and the Condains River, and the Condains River of the Condains River, and the Condains Riv

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THE BARROW DRAINAGE COMMISSION.

MONDAY, 2280 JUNE, 1885.

The Commission root at La Touche's Book promises (the offices of the Commission), Castle-street, Dublin, on this date at 12.30 P.M.

Present:--Lord Castistows, Chairman (presiding); Right Hon. HEXET BRUEN, Vice-Chairman; Sir John M'KERLIE, K.C.B., Mr. J. A. CARRIDY, and Mr. HUMPRESY SHITH. Mr. PESST, Secretary, was in attendance.

Mr. Thomas FitsGoreld, c.E., examined

1. Lord Castlatown.-We will sak you kindly, My FitzGreald, in the first instance to give us an

with the entire district provious to being cusployed by the Board of Works to go over at this time. I overgreed at Athy to make my crammation at what meaning the Darw Weer, at the min which is in the dutally above the bridge at Athy, and I worked the Barrow up, just the same way as I had deen before, making Pertuabineh Bridge my limit, and Clara Hill that is too far to go, for you come into the meentain

 Lord Castlatows — With troubless were cast.
 I only went to ret a rough like at the present moment. for we can go into decaded questions ofterwards L. or less a boundary between the Kong's County and

4. In that isside the Rathangen desimage district !-Little Barrow. The tributories to the Kang's County Lattic Serrow. The introduces in the Kings Control yes, first, the Fight row. The examination of that connected in the township of Cashalling, Lock Downship's property—you will find it on O-chance. Shoet 30 of the King's County—in runs in a westerly direction until at joins the Philipstown river at the

village of Cloabulloge. The Cashine joins it at the nouth-castern end of the townland of Chevychase, Ordnesse Map 27, and they see united until they deep 5. In that all the trabutaries in the King's County ? They have no distinguishing associate revulets. 6. Well, we come to the Queen's County next Give the number of tributary rivers in the Queen's County --There is the Triogra. I walked that from half a mile of Maryberough flows to where it joins the Barrow at Strakard, half a mile below Mountmellick. Wasn't there some drainings work dene on that

8. Mr. Smith.—D6d you forget the Owensus giver which flows through Mountmellick; you did not marsion it1—No. It flows into the river Barrow h above Barnangh's bridge. I commissed all that district.

9. Leed Carramont.—But the Overnor river flows through Meantmellerk into the Barnes !—Yes. 10. And mo't it a distinct river, sport from the

Barrow !- It is a discinct river, but it is affected by the Barrow. I had no accessor of rivers with me when I made the examination. I had only to use But at is a distinct river !-- It a 12. Where does it vise !-- Up in the slopes of the Wherebloom mountains, and part of it is very gravelly.

a mile and a balf below Mountmakek. Mr. Sruen.—At the same point as the Triogue flows . 14. Mr. Smith - Just near Mr. Waringston's place the Triogen falls in 1-Yes. The Strodbally river is

15. Lord Castlations -But that Standtelly river gon into scatter drainage dutriet? - I only commenced

16, Mr Brace,-About what part of the Barrew a larger district of charage into the Barrow than

a larger district of distinge into the saview than now. I then examined the upper Bathangan dis-ment. There was also a large district going rate the Bayrow below Monustarevan but both these districts country below them. The fleeds are greater than awar

Hr Swith .-- The river down below not being council sufficiently for the outliet.



17. Mr. Bruss.—That is to ray, the discharge formhose works occuling down in the lower part of the Berrow produces disjury!—Proteinty.
18. Mr. Oscid.—Dy resem oil these three not being opened into the Berrow. There is a remarkable instance on Land Doughdely topogety. I have some on several considers the inside in from the Berrow will along the banks.

 Lord Cartterows,—Are these lands flooded by the upper drainage of Rathangan!—Proteely, and by the Charrymills river.

by the Charrymills river.

20. Mr. Smith —If the lawer part were opened up to would reasely that b—it would in a great measure.

The Barrow should be deepened.

21. What is now in contemplation would open.

diem to Aslay, and would let all that water amoyidiem to Aslay, and would let all that water amoyi-28. Let l Caracarona.—Deli yes find there was any damps done by the node being too small to let all the water go done.—was the damage diem below the node!—The change was dane below that, and the people told into the Books were fire and-way largewithin the last few years than ever they were before.

3X. But the Rothengan district has been completely cleared from facebi—I believe us, and up in the District district who. 24. And providedly, there has been no beek water from th—No; I from that the changel of the river Berrow repeared to me to have get considerably surrower time my first impection of the district, and the discharging prove loss. There were vector or

share man, and much matter be many persons in the center. There does not appear to have been any persons in charge, or care of, the river channel at all.

23. Year mentioned just now that a great deal of sife was brought down from the upper circus, which stream is wan hardly worth going into 1—Oh, that is

45. And you will clear it is practically always elling up, and that there was no me in duting supthing ap there—I don't think there would be my me for pea have no lead to impose.
37. Supposing that was loft entirely untouched, would not a great deal of the airt be invegate done from there into the lawer grounds—Of course, the clear was lot on the lawer the unit of the course of the color hand to the clear the very years ago much force that the color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the clear the very years ago much color hand to the very years ago when years are the very years are the very years ago when years are the very years.

more repair than tony to liw, is three solge in govering at each sink; and periochiesty below Monastoprous and a little above at any the flow of the watertoprous and a little above at all the flow of the waterside noise in the solution of the solution of the solution of noise in the solution of the solution of the solution date plants, so that the river channel in becoming any solution of the solution of the solution of the unswerner. When I want three ball I coloised data note waterulated have spreng up that I did not see before. 28 Did yes hear any coughting amount the

people as to the great having been damaged by the all getting on to it, and eating it up 1—Of course, I say that all the property along the Barrow has led half the value since I first saw it. Mr. bootch....I know toyed? where great has grown

that no animal could est

39 The Witness—Lord Droghedr's underlagent,
who purchased the townhead of Polyspertons in the
Lended Estates Court, teld use where he used to get
50 an ever for mendow, and hast May tred've months
when I was there, he could not get more than half-

Mr. Gerridy.—I had ence sypedy and when I went to look in all final it to had that I would not ent. it. 30. The Visuous.—Oh, served meadows see more. All the nature genee have dud sway, and there is nobling growing there but equates, had ensure steff, I found a general fledging rangous the people that they would not be estimated with the divincesy of the name view rations the territarium; were usuit. They said, "Unless you fring the divincing up to ordown in will be of the new "I takin it right to tell that to the Comministence, because those people may be objecting to pay when any tax inputs.

31. Lord COMMINISTENCE—The present destrates of the orientation, Largorees, would be gost like orientation, Largorees, would be gost like orientation, destrained the committee of the commit

greatest elektrosion in regard to the Barrow in unquestionably be were at Alex of the obstruction of a seeimat. Hey as that a revigation well—Monamily well, 43. And would not the monthly due by that obstruction be intensited if these works you have been anticipating were completed—Mr. Manzing, the originose, has seen plant for whetering that were. I deem in

33. I suppose the sence thing would take place about the lands of Athy and lower form the river I—I did not examine below Athy.

36. Well, about AthyI—Well no, there is not much damage below Athy, and the energetion occurance below Athy. I confined myself to that year, I do not not not be some thing I did not by beyond it, but of connect the same thing.

3) Ser John W. Kerke.—How you meladed all the fooded than it is definited 1—Fen as for all could scored. The second of the second of the long lands of scored. The second of the second of the long lands of —Golly one period-with at the Holg Getween Mounterceas and Aday—and the moora I Robustier as a general form of the second of the second

3R. But descrif the sorre removing rapid to other logs 1—No, for the source densated in set there. There are pleasty of scattered logs shout which his people as use.

49. Then it is a question of directed along-time that directed. They are producingly of no not, those logs, recent many rapid of the logs, there is no consideration of the notation of the contract of the logs of the logs of the logs. The set of contract many rapid of Kildien and Wikiden. Performed

great many parts of Köhder and Wickley, twelve-and great many parts of Köhder and Wickley, twelve-and iffness mike, to those begs I have referred to 41. In your valuation you have taken in a countersite mappin of saturated bank—nyural hard—hot not flooded t— Yes. 42. Yes included that on scoregy of the findflive

that the nationary of linds would be permanently relieved from floods, and that the injured lends would be canalled to be through desired at least four for in depth."

43. Se I smirrstool. You mentioned that the help

41. So I smitrated. You mentioned that the herbe has generally deteriousted of inte years 1—Yes,
45. Does that apply to the whole district 1—Ye six

whole fooded dataset.

45. Whis 5 by yes skiribute that to f—The
constant subspection of the bands from the foods.

46. But then these bands have been for centuries
subject to be fooded—Yar; but I think the foods
rooms on the bands of bite years a great deal larger
than formerly.

47. And what do yes attribute that to 5—The

surrowing of the channel of the river. There is not the Barrow, and then they would remain three days on it and go off, now the flood remains three and four months. I was driving from the Barrow district on the 14th of October, the year before last, down at Mr. Vcesshepin's paperty, and I could not come back out that property until the following May, the flood combining all that time. Surely that most destroy the

48 But these floods have been going on forcenturies, why should they have increased so much of late years b

-I cannot say-only I tell you the fact
48. Do you think the reinfall has increased of late years 1-Oh, certainly. 50. The year lafter has there was a very exceptional minfall t—Yea. I know some of the freet lands in the county Limerick, high and dry lends upon which

51. And I believe in 1978 and 1879 there was a very heavy reinfall 1 -- Oh, we had three successive wet

32. I believe there come penodically—in cycles—these heavy manfall years!—I don't know precisely.
53. Do you remember 1875—want't that a year of

54. Oh, yes-they come round in periods. Had your valuation any reference whetever to the armiting cents t. No. I put what I considered the present fair value on the lands or I found them —se I walled

55. And you made no inquiry whatever as to the

prictors and I am thoroughly conversed with the control, positivitativy in Kildare

[66] Did yee take any oppusance of the effect of the
designage on the towns by which the river passes?

—I think if allosts part of Pertudington more than

any other, for a large effected of wet country must affect it. 57. Did you examine my of the townperks !—I did—those I found were regularly flooded.

58 And as regarde the effect on the towns themolives you did not notice at 1—No.

59. Your voluntion is by proportion and townsoning

 Dy townlands I valued
 Have you any means of pointing out the presection upon each transmitting. I did not go into tenements at all; I went by qualities.

61. In lets, I prosume 1—Yes, that is the usual way

with the Board of Works. 62. You corefully exemined the sed in each case, and what it was capable of i-I and, and put down, according to the best of my shillty, the present felt scording on the second second upon the supposition of 53. Is the valuation based upon the supposition of

complete relief !-- Of complete relief

45. Does that complete raind unply thorough drainings t. No. B unplies that the layered leads on he thoroughly drained to a depth of four feet. 6d. In point of then, to get the full value, the drain age must be carried out 5—Xes.
67. Weeld it be useemary for the preprinters on

tenants to carry out odditional works to get the full hemefit!—They must carry out additional works to thorough drain 68. Weald therough drainage he necessary in most

Dr. Frencis Lavier Frederick MacCabe was counited

70. How meany years !- Well, in theoreg's drainings benefit occurs almost immediately, but in those marshy Mr. Thomas submerged lumin which are apparently to much deterioculos it might take two or three years after the 71. And it takes seven years for the bad herbage to die oot before it ean be replaced by superior !-

I know that is several places along the river the ten-saries are complaining of thest. 72. Well, that is just the reason I am saking yea-the question; before you can expect the new grate to

come up it must be sown down, the land top-dressed, &c.; isn't that messagey !-- I think so, but in some

73. Do you consider the benefit of the drainage would relieve the lands from floods so as to extend

76. Now, I am referring to a large area which is overed by fags. I express you have seen figs and milder there 1—Oh, you along each side, and I have heard the people complaining of these fags and mil-

I have seen fore often in the mornings, and particularly in the evenings 75. To what beight do you think do these fogs rice?

76. You minumiretood my queston. I mean to what level do they rate; do you know t... I do not 17. You never noticed that t... No, not their height. 78. But I suppose you have seen the place look

like a lake !-Oh, yee, I have seen it like a lake

priors me.

79. Well, is that injurious to the surrounding agriculture !—Yea, it chills the atmosphere.

80. And just it likely to cause blight !—Yea, I pre-

And retards the riprolog of grops !- Yes, but Dr. MagCabe will give you avidence upon that subject better than I can-82. Those heavy lying fogs to the height of fifteen

or twenty feet, they see not dissipated until moon !-Yea, and they spoing up in the afternoon again. 83. I presume you have seen the effects of arterial drainings in other destricts !-- Yes. And has the effect been to remove togs and

minia 1-You 85. Here you experience of carrying out drainings works yourself !- I have had, especially in one exten-

86. Assuming that the top level of the musts was

the form of that level extended 1-Yes. 87. That might be occural males !- Yes 88. And take in a very loop area !- Yes. 89. Do you think drainings of lends, in the way we see referring to, would improve the condition of the

agricultural labourer !-- I have not the slightest doubt 50. But the labouring population also, it would give more employment to the labouriers, wouldn't at I

91. And the effect of that would be to dimmah the

in other houses 92. Therefore you think that the proposed dramage The further examination of the wateress was ad-

valley of the Berrow. I think you know it all: from Athy up to Mountmellick and Pfrikpstown. Please 50. Lord Courageous .- We wish first, Dr. MarCabe. give us a rough sites, and then the Consistioners will June 18, 1 Dr. Prane Xavler Proferick MacCube. sak you my question that may count to then 5—All 1 can tell the Centalaties about this valley of the Burgow is really of a general observed, because some of the most fooded portions of it were never officially under my curs. I never lead as Medical Impostors of the Local Conventment Based, saything to do with Local Conventment Based, saything to do with of the Burgow. I had in my dustries the Drono of 4thy, which necleds Miconstrowm, which is a fleeded Athy, which necleded Miconstrowm, which is a fleeded

Social Colorantesis Books, anylong to ab with of the Burny. I had in not instead the Union of Alby, which models Miconsteven, while in a fleeded periesa, soil. I had also be Union of Corlies under periesa, soil. I had also be Union of Corlies under Alby, Carlow, and Leighills-Berley, but verything south of this to the entary of the Pherove was ord or any district. And I don't know whether the Conley of the Corling of the Corling of the Corling Burny. But had that better on the Kingh error, den New, and the Stur. If these was noticed in the Impury I may say that I also upon of the district.

94 I don't think we come down so for an that. The least we are consumed with he more in the district you first mentioned, Athy and Monosteevan'twe passed Athy Union that these was any flooding. sent a communication to me, enclosing among other ments were made as to the injurious effects of the decemp of the Barrow. The papers were referred to no with a request that I should state to the Local freezes they had ranfe to me was of a general character. I stated that restorrologists had long been of spanie Boyze on the northern side, the Binckwater on the

having a common antenny at Waterfeed 90. Its unted here that the proposed area is 1,138 square miles—you have put if down at 3,694—and the proposed waterpy is 765,000 occur. I have unobtained the Start, size Nece, and size King's saver, requicidated the Start, size Nece, and size King's saver, requiin saind. At all events I could only imagine that the means triffits who addressed that communication to this litch Local Government Beard, must have also good upon the same lines as the English Rivers Pd. letton Commission, because they stated that 400 square miles were subject to flooring.

power open in some hance the family history has proved upon the control of the co

I know remarkable instances of that kind myself I know of rabbits being affected with the know fluke in the same way owing to eating wel grown, but I wan not aware before of the electrostances you

services were being of the descriptions as yet and the services of the service

ing the very great recoverage which took place

assumed masses of population by dramage works. I then stated that where streets are flooded, as the more, Pertarlington, and Mountrallick, the house becoments me liable to deposits of sewage matter, sales from book watering of sewers, if these canel, or demographit, very much som amongst children, and extens fevers. I found portion of the population

98. For my you form covers and plantacht-ist very persilant. In No, where there is cotted from these must be the specific garm, but where you have not the specific green you still get an indication of eith pollution excurring, inclusted by the children gating gastro desargements and distribung and there was been belowed their that the hostlines of what the

lowering of the vital power that you had always associated with the absence of surlight. Where there is an absence of saninght, a cloud-laden atmosphere and directing, and the result w that the vital powers which all powers are mable to result ordinary diseases spinion there is a great deal of chronic rheamstern deranished, that the heavy fogs were has along the steams, that there was more sunlight and request

me by the Commession.

On Mr. Burran -1 dury my Dr. MacCabe that you

ing for alcoholic excitement amongst the lower orders?

160. One of the effects of the proposed improve-ment of the distract would be, perhaps, no improve-ment in the habits of the population in that report. —It is to be kepoil so, I which so—I centure to think Marchine. 101. You mentioned that Corlow was in your dis-

109. Is it within your experience of Carlow that a complaint was made as to the flooding of the lower part of the suberb of Grangue !— I am very glad you referred to Carlow. A most significant fact struck masmonget adults, increased very much. This was so constant that it was impossible not to look upon those

two circumstances in the relation of cause and offset; that whenever the Barrow was in flood, diarrhos, gastric derangements, and enterio feven prevailed in Carlow. Well, I attributed that to the fact that the water supply of Carlow is exceedingly defective. The wells are sunk in the inhabited area through a wells, when the fleeting comes on the level of the subsell water is mined, and it flowed into the wells and polluted there. Therefore I thought that the and potential made. Thermore I thought with the flooding of the Berrow hall a very inquiriess effect upon the people of Carlew, and I went into a good deal of detail about that. The arbeell water was able

103. There is su impression prevailing in Costow that the carrying out of the work which this Commisgot rid of !- Well, is would be scareble, but that is

sail water to pass unto those wells would be beneficial

100 But the facility of escape of the water above will only send it down with a greater rush to the My slea is that the true remedy for Carlow would be

106. That is as regards drunking water !- Yes 107. But you will my that the country is occasioned by the floods !- I say it will be necessary for Carlow

the brunes, and if you send down water with increased Sorce you must do something to prevent its doing still 109. In your opinion, would that increased flooding

110. Have you any experience of Leighlinbridge? Never in time of floods I have been there two or 111 Well, Bamolstown was in your district also !

112. But the climatic effect of the drainege of the valley of the Barrow would be felt as far as the town -Oh decidedly the good climatic effects would be felt

> lodge of the towns upon the Barrow which are within the flooded district !- I have of all, except Purtariing ton, which may be said to be within the fooded dis-

> not include it, and therefore I have no personal knowledge of it. 114. Well, Mountmellick !-- That was not in my district. That was in the adjuning district. Athy and Monasterovan—you have a know-

indge of these !- Yes, for they happened to be in the 116. And do you record them as being inturiously affected by the floods I.... Unequalives No. 117. And they would derive material benefits by the draft age !- I am quite clear on that. Even with out visiting those piaces that are flowind, I am quite certain of the fact that they would be all materially

118. Could you state may limit as to which the immediate effect of the drainage on improving the cantilety condition of the district could be him down. of the district !- Every place lying within the union of Athy world be most manufactly bearfited. I

119. I am referring to the much which extend over the area. They extend to certain lateral langue, but those limits are, of course, defined by the height to because these fogs are injurious to public health!

—Atmospheraselly they are injurious. You know the as the otenospheres infractor gree-the absolute irrita-

fog has.

120. And to a certain lateral extent 5—Yes. *120. Have you had may personal knowledge or opportunity of observing drained distracts which have operating or someway around assume same are been improved to Unfortensisty I have not, but I should be very much interested in the Portsdown instance. It is the only one in Releasi I know of; and all I know of the folicen towns improved in Kin-

121. Lord Carrayows,-You mentioned the Shop beneficially affect the health of the people generally in Have you say reason to behere it has

thing to my to that district.

153. Would there be any means of obtaining evia large area such as the Shangon has been desired or partially durined, such dramage has specifically affected the health of the population !—If the dramage would be able, if you winked it, to point out the hands, tain diseases which would be offerted by a water logged soil, both before and since these works were completed. I was not aware that it had been outed cut to such as extent. His Jour M'KERLIE —The lands have been reliced are still subject to extraordinary floods. There is not been sufficient experience of the effect yet. The verks were completed three years sgo.

123. Fitness.—Then there has not been sufficient

Sir Jean M'Kreans.—The labourers and stud farmers resifting along the flooded lands are now alle to live there all the year round. Formarly they was obliged to leave at turce. 184. Lord Garttarows.—You my that makers in

largely diminished by reason of the large quantity of peat in the Burrow district !—Yes. 125. And of course you know that the peat is being 120. And or course you mase that the past as near used very rapidly. Now what would be the effect of the post were all est out, or greatly distantished... would malaris be ingressed 1—You, I think you would have realistic their which you have not now. To have melecio it is thought by some authorities you must and great heat, and an area constitues fooled. I know in my own experience in Waterford where I know in my or a pretny lake I had an un-on the hanks of a pretny lake I had an un-equirecal case of malaris. There had been large with fall, and then there was a day county spring, and a

126. Do you think this practically by living from generation to generation on this water logged soil the pervery dissotrous change is coming over the people so for very desources catalogs and support to live as their diet is concerned. Prople who used to live on printon and suffit, and offishout and mail, now tale white bound and tes. I look upon that as a very dis would be inclined to put it more on that than on one of rendering the people less able to bettle against

197. Let us suppose the ease of an emifernia or district or country of which we are speaking more

138. And towns Hio Athy, or Curlow, or Monuter-evan, weald be liftedy to be the helical of the epstence and operad it through the country t—Yes, they might become a center of diffusion. I quite agree with you provident f-I cannot say about that. At the time I secretain there was any prevalence of dighthere which I expected I might have found. At that which I offeres a magni more rether an earli-time, perhaps, we might have been free from searli-tins all round. On that point I may state that there is a remarkably good offerer in the centre of that good deal of my information I had from him. 150. Mr. Bauer.-With regard to rhounstitus,

not now come as contact with rheumation. When I could only give you information as to faind eases, but the Local Government Board could get the information elementation has increased or not within any time you 132. Is it within your knowledge that phousanting a nech more prevalent among the labouring classes in operation. I have been in practice in England. I have seen

134. Have the general climatic changes decreased. Ame 25, 1861 or uncreased after great rainfull in Ireland-are you per least or increased after great values in itemini—are you prepared to give evidence on that subject i—No. 135, Lord Castlamows.—Where could we get the most detailed information as to the nickness and death. MacCake pute in the different towns. Monuterway, Athy, Portarlington, Mountaellick, Philipstown and Car-low I.—From the Registrar General you could get the lifecut thing free colinary rheumstim associated oth cuppling of the limbs. I am not prepared to ment Bosed to favour the Commission by getting that information from the medical officers in the districts

156 Lord Camparows-You stated as one reason. why was particularly made mention of a certain distreet was, that it was a bog belonging to Lord Droghoda which would be very much benefited by the duanage, because they ement out down to the water

There are there or four proprietors there 157. Would not that observation apply to all bogs, set merely to thus particular dramage district, but to June 1-Yes, certainly.

133. Say, for mutanes, would not the value of bog

159. And the question of these valuetime comes

160. Is there any meson of accordaining is 1... I on's think there is. You could per a very moderate

141. The whole acreage flooded and submerged is 45,900 Supposing that area to be an oblong, with a value on the same trains took oranged in a set of the begs, because I had no sections. But I know from Mr. Hills proper at the time I spoke of, when he and I and after the people telling use of the great demand orne feet 1. They rank!

145 Therefore the sees of charge sould be incressed

144 White I wanted to arrive se was, how far y could extend the area of charge indefinitely !- That is difficult to answer 145. Lord Carrierows -- Of course at it a difficult

148. And I don't see why it should not. If you form on some you mond only increase the zone, and

Everyination of Mr. Thomas PiteGorald, c.r., contract. to the valuation of town property at all. Was the eation gone into l—No.

150. Was there exprising about the value of town property being responsed by reason of the fact of the water not flowing in there !- No, I did not go into that.

152 Would it be accounty to redrain what you call the submerged hards, supporting the main dramage

drainage or small light drains all through. Would not the effect of the outs being made in the many river cents even to what you have piaced as your improved counter should be secured. As regards prince

155. Would it be necessary to do it !- In a few cases it might, but not generally. 155 Mr. BRUIN.-The accust movesor of value that you have put on is really what would seeme to the district from man drainings works, even if no money drains were denot -- Precisely so. I did not

156. And I think your estimate of the increase in value is something over \$10,000 - Yes 158. Lord Compress. And with regard to your

report, the reace you include this portion—this small part of the county Wokley—and up at Kibiare, Grangeber, and Giftenstown, is on account of the benefit which would source i—The deepening of the more I cut out some districts which I thought

were quite high energy for independent destinate. enough for unispendent drainings !- No.
*159. Supposing the main drainings in the valley of the Barrow is done, are we not going out of our province in going up to other distings distracts

this subject. If we are to go into the valuation of extend our area to other districts because, naturally, other districts will be benefited by it. How do you draw your line as to what distract you take in or what district you heave out !- The district which was included within the catchment barn, according to the

Mr Thomas

cluded it. 161. Mr. Cassury,-At what depth do you say the

submarged hads would be drained !- They could be 162. Mr. Bayws .- Thou districts in the county Winklow, are they each as could not be drained except by altering the levels !- No, you have not land enough to

163 What I want to know is—could those two small pertians is the county Wickley be drained in-dependently of the others !—I don't think they could;

one but might. 164. You say the expense would be too great?-Yes, because there is only a little narrow marris Where the proposed work would improve the land,

I shought it only face to put a charge on it. 165 There as no other land that would be improved sufficiently there to bring it within the district i-No. 166. Lord Contagooux .- As to the Queen's county. I see the flooded lands are put down at 7,306 seees, and the injured lands 5,564 acres. Would you say it county. There is no other hand that would be im-proved by the dechange of the whole bears but those lands you have meloded 1—I don't think there in 167. And the same counts would apply to lands in

168. Neither directly nor indirectly t—Neither directly nor indirectly. I made my enterinsion of the land with an much care as I could, to prevent

169. There is a river that I am personally acquainted with, and thurefree I speak of it, you know—the Straffelly river. The stream just above Straffelly is

170. Well, part of the Berthogus district is my see perty, and there are also three or frur other properties on it It was proposed to drain it, but it is believed

171. Well there is a case in point. Supposing that these desirage works were carried out-supposing the Stradbally rever was drained and channed, and every innerventant made on S-I and the others in the that district. Therefore we should derive a real benefit without contributions to the area of charge i ... I think same of the Berthogue is included in my rehealth.

Occhard. That was the limit marked on the original place of the Board of Works 173. You have no knowledge that there would be us. Until the acctions are produced I don't think it

The only way that could be mot would be by the you would see what country lying beyond would be

175. Supposing the country lying beyond was found the works were completed.

Assett 1900, years are, was considered by u.e. I went into the 176. And you would applied the expense on the the original area !- Yes, on the original area. I don't see any other way of deing it. That could only be done after the works are finished. If you do them you would miss great opposition us the country, sal people would only be saying, "We are independent

178. Would it be possible to do that; is there my of it, anless you brought in such a provision male; a

179. But at any rate you confined your valuation entirely to what was laid down by the Board of Worket I had permassion from them to column as

180. Mr. SETTE.—Dad you find in name places that from the large occumulation of sand the course of the *180. Is not that always the case in gravelly rives

flood gualece a freek operate for starlf. 181. Did you find these new courses a good deal sheaked by trees !- Very much neglected water being detained on the land so long !--Yes.
There are a lot of old trees about Mr. Warterteek place, down in the bed of the river for years, and all these impeds the water. There is no supervision over states, for my information, the renumeration I will be entitled to scoreding to the scale sanctioned by the Transacy (read the letter). I decline to accord than terms under any oparitions, for 1 do not see why 1

may state that the metter has been referred to the Transcry. 183 Mr. Surrat.-In case say individual complanet of his saluation or share of the expense, could you

Have you the value of each halding in any way!-by qualifiers. These are all marked upon your maps farm, he mable to do so by referring to a number or the map where that particular portion is !- Xee, he price per sere, the present value, and the improved value.

167. Mr. Burner —Surreyone 1

188 Supposing I am an occupies there, could I

189. Then to it impossible for me, as an occidento find out what I should be uniqueted to by the dramage impovement!—At present, yes
Bir Jone M'Ricairs —Without professional sensisace he would be in a difficulty. But with some pro-

190 Mr. Barret ... But what means are we to put st the dispensi of the public interasted for finding out what they have to pay i—You see, on each of the men thus see nambers and the numbers are referred. so in my valuation books.

191. Lord Castarrows.—The only way to give such information to occupion, of the prospective ma-

at all By referring to the map, an occupier could any of it is affected, or any of it included.

192. Would you suggest that it would be the supplast recens of penning that cut to the local people, to seed down copies of these valuation schedules !—Yes,

and to looke conten of the maps in different places. The usual course, when it is decided to go on with what is called a preliminary valuation, is to assertain what the district would be, and then after the works were develop on and entructed for to go over the lands seems when the occupants' holdings were marked and the prices were returned. It was usual to secu-

and the precess were retired. It was nimed to secu-tion the acrosp, and it was then all charged Sir Jones M'Kenner.—That question never mose antil, in fact, the works had been completed, but I think, maker the Act of 1874, schodules were provided for showing the tenanti' hoblings.

Mr Pessay.—The schoolele gave the name of each

Sir Josey M. Kreage - The ordinary valuation scho-

Lord Carrierows.—Then why does not this volum

proprietors got up the preliminaries themselves. They show 22, 1800. ledged there with the Board of Weeks, that an in Mr. Thomse rpector might be appointed. The documents were then Pile ledged in the district—an importor was appointed, and heard objections to them. Such a state of things does not arise here. This is a new form altogether Lord Cantarows -- It would be much simpler if

we had the tenents' holdings before us Ser Jone M'KERLIE.-I don't see that there can be much difficulty about it, if the districts one divided a suggestion to the Commission 1-Mountmellick se one; Philipstown, at the extreme limes of

n very important pince. It is the key to the entire middle district. All shout Major Borrowen' place our from Athy. 194. Mr. Surre -- Just looking at this valoation of yours here carnally, I find in the first one on the

aren statute sour, present valor, 10s. per statute sere; intreased valor, 20s. The increme would be 32s fd. the Iraik sere. That looks very high 1—Oh,

193. I see, as a relt, your increased value runs from 3s, to 10s. the Irish sore 9—Yes. The Commission adjourned till 24th Frant. Mr. Promp. Become, under the Act of 1845, the

WEDNESDAY, 24vn JUNE, 1885. The Conselusion mut at La Touche's Benk precaises, Carthostreet.

Propert - The Right Hon H. BRUKE, Vice-Chairman, presiding, Sir JOHN M'KERLIE, Mr. CARRIDY and Mr. HUMPHERY SETTE.

The Secretary, Mr. Penny, read the minutes of the mayings meeting which were tigged. He she stated "I had a letter from Mr. Haward this morning. stating that he could not attend here until the end of the week. The letter was written to the Chairman. He states that he will read Mr. Manning's evidence

very carefully, and that then when he goes over the unon with him it will answer all the purposes that he Mr. Barrs. I think it is rather inconvenient that we have not Mr. Hassard here during Mr. Manning's

Mr. Surve .-- Mr. Harmed is crossing over to night,

Harrist .- And then Mr. Mazening will, purings, be able to continue his systemer, if he does not finish Mr. Balert Manning, c.z.—I am very much protect

I will be away all next week Mr. Forex.-Well, if Mr. Hussard is here t morrow, it would facilitate our proceedings very much.
Sir Jones M'Kenare. But Mr. Hassard thinks at necessary to make himself acquainted with the senseal

details of the engineering, before Mr. Manning gives Mr. Masselms.—It is only within the last few days that the particulars have been given to use, so to the value. I was out of town, but I have anticipated my report by getting part of it printed; but I have sub-

Sir Jone M'Kentin,-But there is nothing to movent you going on with your observations on your own project—the cognaming design.
Mr. Messeing—Oh, I can do that. Sir Jens M'Kenny ... It does not seem to me to

he fem services — in one not seem to see to be of much consequence whether you have the valu-ations or not. It will be very important that you should be able to tell us what the approximate cost Mr. Messess -Oh, I could tell you that to-day Mr. Baurs. - Well, I think the Communica would

Str Jony M'KERLIE - And to give a general state ment as to his proper. It is rather unfortunate that Mr. Hazard is not here. It would be better if he was here to ask quantum of Mr. Manring, then that

he should enter into a private investigation with Mi-Manuing after an importion of the rosps. Mr. Esuson.—He could also inform the members of Mr. Surver.-Yesterday it was quite decided that en should keep sitting for two or three days, and Mr. Mr. Faurs,-Well in the meantime we had better

go on with Mr. Manning's examination.

196. I have here a proof of my report? which is in

thence the river, warm is not easied and consumerative, flows in a north-easterly direction towards the village of Rascaula. From these it flows in a north-westerly direction to Rashooffay bridge where it tributeries; it person about one mile to the north so tolned from the north by the Finile river, which has a catchment of 107,400 acres, the united subchment of both being 276,200 acres. The Figlic itself here number of tributeries such as the Philipatown, Cashina, and Siate rivers. From Messetrown the Barrow from in the nonlinely dissesses to Athy, having been joined other streams, the total estekment at Athy is 407,700 neron or about 637 square miles. The length of the Barrow from its source to Ashy is about forty-sown miles, and that of the Figils from the Glashakaun river to its connexion with the Berrow above Manuaterevan is ninoteen miles. In the whole of that lerge the previous of the Destroye Arts. One is the Rethungen drainings which is formed on the upper part of the Siste river, and the other in the Killage one with the other they would cost on an average increased by that of the works which I shall describe taken by themselves, and excluding the tributories give you for each stroum the quoutity of lead, and the particular section. Now, the first step towards two poting the improvement of such a district as that is obviously to determine what is the quantity of water correctly to electronic want in the quantum or work we have to deal with That in a most important moster, and, therefore, in my report I entered very fully into the data which I have taken to govern me engaged more than thirty years ago as a district sugmeer upon the orienal dramage of Iroland, and I a rule which was a mederately fair one, and that was about one and a quarter feet for every acre minute. That was found to answer very well in the centern part of Ireland and in moderately large duringe before we had experience. It is now more

Mr. Robert Mouning, c.z., M. Inst. C. E., Chief Engineer to the Board of Works in Ireland, experience It, was thown entirely into the abole by some extreme cases in which we had no less than thirtiess or fearteen cable lest per acre. Well, now take another one opposite to that in the largest rives we ment, and large compensating reservoirs of 80,000 per minute, or about two thinks of a called feet my arre. Aguza, we have another cose —that is, the river Bonn at Toome As you are a ware, the river Bonn has a large reservoir of 100,000 acres in extent, dividing the discharge was 682,000 cube fort per minute from a catchment of 1,195,000 serce. That amounted to is ther more than half a onho foot per ages, the acea of that large lake being 150,000 even, or emetwelth the aptire estebacent. That is a reservoir which ma central floods from an extent of country twelve times charge of eight-tenths of a cubic fact per musuic, so that if that lake had not exercised a compensating have nearly one and a helf feet per nore per minute from that large district. We have other facts bear-ing upon this subject, both in this eventry and is England Mr. Balcenan, a well-known organoce, and skill and experience in these matters, and also cherr-valico, and in this present one it is very well we have not to rely upon any such date, because we have negoty consecutive years' observation of the great Brown rives, and the quantity of rain that full at Tellamore inches. That occurred in the mouth of June, 1877. 207, \$77 cabo feet per munate, being within a fraction of one feet per acre per minute. Therefore, on a full consideration of all these and I am of opinion that the greatest fixed which may in if you exclude the extenordinary floods which take

* Box Approxime

place much and at long intervals—and the great winter dools will not exceed 350,000 cubic feet per minute. I have, however, thought it predent to make provision he the larger quantity -400,010. Now the next thing

charged, the channels which I have designed are amply upon which all these men peactabilly agree. You may

to early away the discharge.

He BREEK - Do I understand you to say that the maximum would be 400,000 cubet feet per minuted.

—Yes, 400,000 cubet test per minuted will be the discharge which I stated will be the highest discharge at the maximum food as Athy. Now then so to the works proposed, I think gradeopen that you are all as Duke's well. The next great impediment is the shoul at Bert and the third would be the shoul ender under the railway bridge of probably 4 feet, and in a examined them, but I need not tell you the particulars.

It is enough to say that the man of the channel which I propose at Athy, is to have a bottom of 160 feet, and a depth of 24 feet to the surface level of the and about 285,000 at Monastorevan. With regard wish to make. You will observe that when I send in the metaons of which these are proofs that I have before me, that the upper part of the river, both of dimensions as well be contain to give you more abundant than in enough, and any change in the dimension of these changels will not affect at all the amount of my

that I can my saything about.

198 Mr. Surra.—In mentioning the catchment, up did not my snything of the enterment of Gerry hinch. There as large quantility of land there covered with water I can give you the exchanget. We will take the river Berrow. Now, I bold you the obtainment to Athy and Menanterwon, and Portsublingen, and then there we a place called Portsublingen,

Portrakinch to Triogue the establishent in 83,300. I June 24, 1841. have also teld you the catchrocat at Fight river : it is Mr. Hobest 167,409 at its connection with the Barrow; it is Manufag. . . 78,000 at its junction at the State river above the

199. Mr. Bayers - Do your peoposed works include mythory below Athy !- Only so far so the navigation is concounted, about balf a mile below Athy. It is in wheatover with regard to the interference with that navigation, by the proposed works. I know that approbamators have been enterested that this furnesses and it is in regard to the mill interests. I have not thought it well to go into any actuals of any particular become a mother for a decision by a Court, and it give may specied purbusines of three cases, of I now gave my opinion bees. I can only say that I have provided in the estimate for the purchase of the will obvint the accounty for perchang. Therefore, you will understand that my naturate includes the question of nell power, and I on hoppy to say that I will most go out of it. There need be no secret shout that—that mill must be purchased. The others we 300. Str Jone M'Krears - Is it complete relief that

you have provided these under all the circumstances there be complete rolled to the heads !- Well, I don't flooding; but I may mention thu, that I have taken which has a similar cateforate, and I found that only upon one scenario, in the year 1851, these was a ducharge of 257,000 coins feet per minute, as I mentioned, and never alone, and without going the length of mying positively, that a floor will mover come ever the hunds opain, I don't believe there with. The only question which insher perplane rue, will be whether the rim of the channels month not be refreed, became we never these seems before us, in refreence to the Bessus—in the year 1851, there was a flood of 917,000; in the year 1852, these was a flood of 238,000; in 1877, there was a fixed of \$30,000, and another flood of \$16,000; and

201. But in the sections where you provided it at particular points, you mention above Athy, at Bert, personar penits, you measure server attay, it Dirt, there is a large cutting. That, I believe, is the largest you have t—You, up beyond Bort we have the nectimen bottom which will discharge the same quantity of water as in Alay... 100 last—which gives 262. You mentioned that your dough is to excavate to a draith of 8 feet there!—At Best—you to 8 feet.

that is to 8 feet under the present bottom of the 203. Is it necessary to sink to that depth, I mean,

for the purpose of relieving the leads?-Yes, and I Ur Tabes

will show you why. (Writeen explained on a map.)
There the write won't go in on the lands at all. It will pass by. We have only a fall of 15 inches in the 204 My question had reference to the econodersts

whether a lesser depth might not be given with such additional width as would be accuracy to compensate for the difference in depth. Whether that would not could get a very large width. The channel is 160 feet, and if you take the spell banks which we are obliged to parakon on each side there would be a oranged to parameter of hard taken. I agree with you in what you say, that where pountile it would be well to avoid poing to such a dropth and to give a greater width. I endeavoured, in my coliginal design, to see if I could get risk of so great a depth by giving which

to compensate for it. 200. Mr. Sourse.—But supposing you took additional width, would there be any danger of more occurrate is a very serious one. I have endeavenred to make the charmel sufficiently small so as to give a velocity that won't allow a deposit, but a matter of great Efficulty has been to reduce the velocity day we have too much of it, and I have introduced aters here (indicating on the map) which are like weirs to get

rid of that velocity. 200. No doubt you observe eneves on the river-is there any provides for straightening these to Oh if you look at the map you will me that I have provided for

207 Sir Josev M Kenne. You have not given have the details of the tributaries as organate from the main river !-- Oh, yes : there is a draft of them (document

208. When you speak of the Great Barrow, does the mean the main river throughout its length !-The Great Barrow rons from Ashy to Monaterevan.

200 Mr. Sarm, —But doesn't in continue forther up!-You, but not separately. Se John H'Kerlis asked

210. Sir Jones M'Kenne,-The Finnery river comes. 211. Practically that in itself could be apprint out

212. What I mean to my is, if the money advanced to the occurrentity under the Act of 1831 is would be very many a paying mineran. It wastes proceed within the 5 per cent. The motory advanced wealth be repeated by installments extraoling over 35 years at 5 per cent. The setual banefit would be a little over that. The improved value per acre is \$2 bd., The next is Maryborough Heath!—Yes, 213. Is shot a stream!—Yes, a small stream

214. The account is 739; the improved value ver sere Sa Sal, and the cost per sece £4 4s 10d. That would come to something more than 6 per cont. Then Eallyhrithm which you put the cost per ner as 25 2s. 9st, and the improved value 3s. 9st. As to Stradbally river I see the acreage is 1,252; the cost Straffarly river I wer am screege in 1,000; Lin were per note £5 15t 2d.; and the unproved white 4a. Why the cost would be nearly 7s, while the retimated value would be only 4s. Well you have put the Kyle and limegoe revers together. The agreuge in 438; the improved value, 4s. 4d , and the cont age in 438; the improved value, 4s. 4s., and the cent per sere £9 13s 16sl, so that the cent would be about 9a 6sl, an acce, and the repayment per acre, if advanced, 4s. 4sl. The Little Berrow has 13.344. acres, the cost per sere, £6 18s 3d ; and the im-

preved value, 4s. 1d. per now; so that the cost would be nearly 7s, and the brandt 4s, 1d. The Yrlegue has an acrosp of 1,380; the improved value, 6s, 3d, and the estimated over per acre of the improvement, 29 18a 10d. That would be that they would have to perage of 1,000. The improved value is put down at \$2,000, and the cost per acre, £15 Se, 5d. That would be a cost of 13e, 5d, for a benefit of 3s, 3d. The Pagle river has an accorde of 5,738. The improved value is put down at Su. 10cl., and the cost per agre at £9 15c The Cushina has an acreage of 2,143. The improved value is set down at 3s, 8s', and the cost per sore at 45 Se. 7st. That is an estimated cost of Se. 3sl. for a the improved value, in 3d , and the estimated our per acre, 25 10c. 3d, on a cost of about for 5d, per acre for a benefit of 4c. 3d. Then you have the Philipatown, with su acreage of 2,108. The increased value per arre is set down at fe , and the cost per ser-25 10c. That is they would have to pay fix 6d from benefit of 5c. Then, upon the whole, the average is £10 11s 3d pec sere for the cost. The benefit, I are tenant will not probably be greater than as fid. per wor, while the cost upon the whole would amount to 10s. fel. It is a pity Mr. Heasard is not here to ask questions upon the general principle; but I think there one some questions it is very important the Countries Manning, with regard to the effect of the tributes on shall be happy to give you all that information.

Mr. Burrs —I think it would be maxedable not Wilsess .- But I will be carried the whole of most

Sir Janx M'Kernte-The few questions which I have been suggesting are with the intention of leading of you. For instance, what would be the effect if you Mr. Surre.-If you don't draw the Barrow you

can't duck the telepratics, for there wen't be a fell. Sir Jours M. KERLER .- You can drain many of the Mr. Sanza.—The Ownzase passes near where I live, and I know when there is a flood in the Berrow

BRODE.-Perhaps it would be better if Scr effectually drained wishout draining the main river !skirr that question and go over the whole of the

Bur Jeony McKentage....We have an instance of it as Bathaugan district and Kildare district, where certain rivers have been effectually drained without the 215. Witness-With regard to the Owenses, I than

M'Kethe was talking to me of the effect on the great main raver and of the Barrow from Akhy up to Moss-Figile vivor goes in one direction and the Little Barrow in another, 216. Mr. Surra.-Is the Little Berrow the one

that passes by Porturington to Mannimellick t... Yes. . And Mountmellick river is reduced to the Mr Surm - Well new so regards our distret-the Ownnes at Mounteellick - the water from it is down the mountain sides made repelly, and there are

two small weign at both ends of our town, about two fort such they are kept them for the purpose of relaing the water to a brewery and mill house; said,

(Level Cartletown here entered the Beard Room and took the chair.)

Sir John M'Kusata... The reason of the water being down there somer from the monatains is on Pitness.-Mr. Hassed stated that he would go

over all the details at my office, said I shall be happy to no toto the whole matter with bim when he comes Lord Cappearows. - Mr. Hassard is the official

expert upon the Connections, but we also have to draw out opinion. There may be other things turning upfrom time to time that we may wish to have information about. Other persons may expects a different Hassard could see you in the morang then we could

218. Ser John M'Kunair.-You look upon your origante Mr. Marming, as a felr one !-Oh, certainly.

could be owned out for !- Yes, 215. But are you aware that as a rule estimates have been exceeded in all cases, or presty meanly in all cases 1—Yes, in various cases indeed to a very large

220 In those districts where the drainage has been servied out by the proprietors thermelves under the Act.

able appound-SSI. That is a contingency always to be expected ! Yes, it is a continguary that may be expected. I

222. Are you aware on how much on an average these estimates have been executed 1-No. I could not Mr. Penny .-- I have get a return.

Witness.-I know instances where they expeciled 90 223 Sir Jony M'Kentan -And the excesses I prewage are relative to the amount of the estimate-for in stones an estimate of works that would cost £10,000

might not be exceeded by \$5 per cent, while an \$100,000 might be exceeded 50 per coat 1-It might, 224. But that is the result of past experience-perhope you cannot say !- No.

Mr. Pourty -In the case of the Inny, which is one No John McKunter -- As a vale the excess is pro-

225, Mr. Serra.—The larger the estimates the larger the presentage?—Well, I would not expect that.

1 have no knowledge of that 1986 Sir Jone M'Kuniu.—There is less rink with a small district than with a large one !- Oh there is

difficult works, sea works. My estimates amounted to £80,000, and my excess on that £80,000 was only \$4 11s 11d \$17 But that was not one work, but a number of works 1-Oh a number of works

228. There is another fact which has been some tained from namerous works which have been correct 1863, that large districts are less remunerative than recall once t... That is needly a consent rule. As I told

that the average cost of the whole works proposed Jane 16, 1846, here will be £10 11s 3d per sere, while the dramage as Botest of the Buthergon, which is a britistary of the Burrow. Manuage of cost £8 12c. 5d. per sero.

229. But what was the estimate for that 1—I don't

know. The Upper Lany cost £7 %, hd. per sere, and there is a little river in the north of Ireland where we drained only 453 seres and that cost £11 Tr. Ld per sore, but that is the exception which proves the

rule The Molkour, a terbutary of the Shonnou, cost

no that it varies.

Mr. Penny.—The original revised estimate for the Bathangen district was £45,809, and it cost £76,412.

or 74 per cent, above the estimate 250. Mr. BRUES .- Do you interfere with the Duke's well at Athy; do you take it away altograhar !- That amount of money which will canble me to take the Duke's weir away whenever I like, and per it back souls, that is in other words, to make the shales cupacity of that were so great that the effect will be the

the mill wishes it, it might be champer to puschase the mill there than to except these works at Athy. 231. The racination of the new channel of the river freen Athy upwards, is it pretty unifices to the new out b-Yes. The gradient of inclination of the cleaned from Athy, or below Athy, from the end of the new

cut above Durrally bridge and between that and Bert is fifteen inches in the main, and then through the new out I foot 9 makes a male. We go on then till we get fifteen inches in the mile again, and that bringget fifteen inches in the mine again, and that trings us up to Monasterevan. Then we have from fact per mile, and two fact mine inches per mile, and so on.

232. Lord Carrageows, ... Where is is that you are non. Loca Committees, we are us it than you are ambigroused by falls 1.—The upper part of the river, from Pertarlington up. Then below Perturlington we have marrly three feet in a mile—freez Pertarlington to Baylough Bridge-and we have from feet in the mile

233. Mr Baues. I suppose from an engineering oint of view you combier the full from Monasterovan shown to Athy a very poor one !- Ob, very.

234. Do you know the fall of the Berrow in its

present state from Athy slown to Carlow !-- I do not. Although a fall of offices, makes in the mile secont to Amorago what or affect meres of the fails scene to be very triffing still in a large river like the Baarow there is very great velocity. I wealth like to get a little more fall there if I could to reader the workscheaper, but fifteen makes a mile is a good full. In the Shanon we have in some places only six inches in the

that is the sparstry proposed to be relieved of water in charges it gradually. In not that not .—To a certain extent There known sense this project was put on fact that My. Kuns, who undertook the school survey. the actual valuing of it, were unable to proceed with their work, because the Lauks were flooded up to the

216 Bet you have made observations for a great aumber of years there, and know the country well 1-I know as a matter of fact that on the Barrow 287. Can you my how long it token at present to

discharge the floods that are couped up after an ordi-nary heavy mentall 1—No; without merely making a gassa at it. I would suppose after a heavy rainfull in the valley of the Recrow shows Athy the flood might got off the lands in a fortraght or three weeks, or

238. And the works that are now proposed to be sions will enable all that water to be duchanged in a Mr Rabert Manneng, co

to be bourn 1—Yes. You we although the band is fooded, the midful is dishryang, the maje difference in bing that in one case it is disableaged over the hash, and in the other is is disableaged over the hash, and in the other is is disableaged over the hash, we are not to suppose that because the valley of the Berrow is milgeted to food and moder food for a long time, that there is not a keps disable of raiving, these shoots right-tower has hand. Now, then, missed of alwang that disableage over the load, we intend, if this proper is monoscient, to have the disableage mader to be very

the lands.

310. I would like to know what will be the effect
of the accumulated water in that great lake where it
cannot now get a way quickly, owing to the obstructure
centing daws so middly 1—fortion of it war's get

coming divid so rapidly 1—Portion of its worth go way so myslip as you suppose the office 2000. My questians have references to the office 2000. My questians have references to the office 2000. My questians have reference which —Burker to Review vertice—we will say for instances of the I think it will be just equivalent to what the effect was in the case of the strop of the num who put his head octous the source of the Danzale. 241. And what would be the effect!—The effect

341. Ann was wears to the driver—the encount in which the draws I my would be acting. The effect will be the care I my would be acting. The state of the best of the Decades, part his hard arrows the spring at the surrow and said of "What will they othic of this of Virtus's" and said of the What will they othic of the at Virtus's "at I can adquife size I can follow your simils. What you propose drong it not placing your hand to will be proposed force; and the bottom of yar, and the bottom of yar, and the proposed force of t

across the river to its assess. The observations are some forced from some Albay-mean the bottom of year forced from the sound of the control of the sound of the

were reaches in the other of the cone filling sport has 100. That is not measured to the time of the con-100. That is not measured to the interference of 100. That is not measured to the contraction of the contract of the contraction of the contract of the contraction of the con-traction of the con-the con-traction of the con-the con-traction of the con-traction of the con-traction of the con-traction o

100 feet — Yes. 245. Je blast at all nearly the same as it now exists in the river 1—16 is less in some cases. 246. Year entirate, you state, includes dealing with the nill interests only in the district in which the distinger we carried out 1—Yes, only in those

the duminage is corried set 8—Yea, only in those distriate.

Mr. Bauris.—I suppose if Mr. Manning comes before us again, we may have an apportunity in the mean-

s time of scaing his report, and some other questions a may arise which the Commissioners would like to put to him.

Lord Carragrows.—I was just going to propose that course.

247. Mr. Casaror.—Do you think that any works correct out on the main body of the river world have sueffect in the way of provisions these alreads forming. I more, supressing them, accomplishing of city.

control control are also only it can be the which have upto the control of preventing them also do forming. It mans, reproduced the theory of the control of the transport of the transport of the transport of the control of the control of the control of the control wall coase to have accumulation of any, but it well to equally important to prevent that side from soming down and doing wome. 248. This would have to be looked to at the least

263. This would have to be looked to at the lead of the givent—10% Kexate—Do you think the relies 249. See Jours MCKexate—Do you think the relies ing of the basis of doods and contring the waters region of the latest the seed of distincting the water of distincting the water of distincting the variety. No. I think all the arterial distinction will have the effect of increasing the waterpower of the mails.

the mails. It millst—I think so. Where a vesterail 300 A. Ha privar, incee with anyest to he average quantity. The great deficit in the state to he average quantity. The great defict in the state too make stoply, and in summer ascetale less than they require the effects of a constant the state of the effect of a reterm it immany will containly be to be create that triminants supply, and by the rough that the contained of the state floods which are an increasement of of the states floods which are an increasement of the flood of the states floods which are an increasement of the states floods which are an increasement.

an inconvenience.

Bit 1. You think they will be better off if the might be better regulated by You have regulated by the improved operators, the milit was ranged by the interpret of operators, the milit was ranged as foliage from shooting characters. The proper way to shoot sentent belowher in the river of steam of shoots of the regulated by the regulated by

second the results of noticed deposits—becomes and part of the par

236 Ale you sweet of any great disselses in Inclant remaining undrained 1—The Barrow is one, the Such is motive, but they are drawing it, and there are seen small things to be time down at Lough Neigh. The Barrow is the principal case. 237. Do you know the May river 1—No, I do not

the cost have you included the whole express of the included — Yes 25%. But in there are a probability of that being get

209. But is there are a probability of this being get-freen the centry, it being an improvement of contribution of the properties of the properties of the properties would be properties to include the properties would be properties of the properties would be properties of the pr

gost of the country bridges, which I can give you when 951. The cost of the Oweness riverseems to be greatly in excess of the drainage of the other strescos and

quite shows the increased value of the land, might I ask why is that t-I can tell you. The Owenius river but only 1,000 acres upon it, and the discharge of the the act we represent the property of the party, which is a whole. If you said the body as a whole. If you with the Owense by itself, it looks more expensive. It is a river that will give a goat don't deathly in sensing down sits. I think it is the went-

view in that part of the country. 262. I take is that all the expense of the Owenaus would fall on the little district that would be benefited

by the improvement! I don't think that would be quite by the improvement—I continue trace would be quite for towards the Owenson. I think the Owenson and the Triograe englit to be put together. It would not make much difference—about £11 as some in the

265 But they are quite different streams; the Triogue is not at all a rapid stream, and it does not

Mr. Baurs. - They are independent entirely laps, go a little over ground that has been shouly tra-Athy—that is a navigation were, and we proposed to make an artificial were there, the effect of which will be the same as if the Dube's wear and the navigotion

265. I went to know whether the terbetaries are included in your commete, and to what points they are included!—I cannot well tell that. The inforrestion to enable me to tell the points to which we go up, was only given to me within the hat few days, otherwise I would have had these medicas and plans

566. Then the estimate merely refers to the actual arterial drainage of the Barrow itself 1- big estimate 267. In order to explain this mattet we will take to tributary. I harren to knew the Strashally

the Streithally bridge, but that does not include the a little extent of land rums up there. 348. There is a very large quantity of land there; ten or fifteen thesesand norms—The whole taken in

36). Do you think that the proposed drainings would affect the Burthague as part of the Stratbelly more!—I could not tell that I know there is a quentuon about a mill up there, but I have not heard the dengle. I know the question was considered whether the land above was worth taking the mill, or being

the question that will arise, in my spinion, and which I feel is at the sect of the whale matter, will be the a coutain point at Straibally, and the district above benefits from the acterial drainings of the Bursow, and that the people are able to durin it at a less expense,

or at very small expense, and that they sensmently could not have drained it at all unless the Bancow had included in the Barrow dramage saleme !- Ob, corit after the outlet had been owned, it would be ertainly right to include that as part of the scheme.

971. What I am anxious to try to find out is wiseher the area to be charged can be increased or rationer or proprietors are adjected directly by she value brought under the burden in the same way as the riparken proprieton!—Certainly. I want over the whole of that district myself a year and a helf age, but I don't blink three will be many come of that kind which world materially affect it as a draining cohome.

STR. In the course of your examination, and in the consider at all whether any partial scheme of drainage

an engineer takes upon ministr to no said a land, thus, and then the works go on, you will find that the engineer in afterwords told, "You promised to give us such and such distinger, and you have not dear my. The safest thing is to my, "There is a drainage otherst fee you, which as my judgment, would be successful. I will be a successful. I will exceed least works for you if you are sales fied with them, but provided that in case of floods you do not make me responsible. I now Mr. Friegensid's to be realized there on the condition that we should have a four-foot draining. Well, I believe there will be from feet drainings, except at \$40y. There is a small we won't pay a farthing "
Sir John M'Khalix —I was under the impression

that what Mr. Pitagorald confined himself to in rela-Mr. Sarru.—That is quite right—if was to these subenerged Lands he confined himself

*272. The Witness.-The great difficulty in these matters in this ... that if you go to reduce your solume in having reduced it, to make at a complete scheme 273. Lord Castarrows.—Supposing the reduced

works were carried out-that is the original works, but not in their convey, and that it we becomes considered recessary or that a popular deare was evinced to carry out the sylene in its emiliety, you

274. The question of mall interest and compensation, I suppose, has been fully gone into i-You, the Conmissioners have teen good enough to sak me to make 275. There is a Navigeliez Company which comes in somewhere below Athy !--Yes.

276. I suppose the works proposed have been connavigation t. The navigation that interfers with the Barrow is shout half a nile below Athy. It is a coming and praction of two navigations. They work the proposed volume of water will drown them, and that we will make it very difficult for their barges

to go across. I have considered that question and as far as my judgment goes we will subhersimpowe the volume of water will be rather equalized by the works being carried out. It would be an advantage to the navigation, for they would have a constant level of water in place of an uncertain one. I believe at propert the low hards immediately below Athy, down to the next mill and look, are slaring the floods all covered, and the navigation suffers

277. I would like to know your experience upon one matter with regard to which you perhaps can give we more information-that is where some in draining works have been caused out and where the sector is very rapidly discharged down a particular charmel - a new channel, are there not many instancomplaints about that, on the Harmon for example. They thought it was better for them to have a altogether

275. I believe there are pecadows affected by it in one who has both in the distrect. Those who have naturated. I know cases where it is stated : - "Oh. there is called land. I am now able to get my £7 or tell me, with all your science, how we can make that had more profitable." Well, the avainable worth tant more profitable." Well, the engineer's meeth in closed at once. But, I don't believe it is merely on that account—there is more in it than that. In years rope by, the Irish farmer thought that any kind of bay would be good amough to give to a cow, but meteod of that being the case now, the farmers of today think that cows should get buy quite as good as these flooded meadows will not be as valeable, said they have really been so valuable up to this. 279. Mr Banna.-Then you think the lower price

that the grasses me worse, but that 280 As I unitroteed your evidence, it is not owing

281. Lord Contentions.—Would there be say means of ascertaining the different depths of the river at

of 150 feet in width, sad a depth of 94 feet. of the every at different populat-That is shown on

the map.

282. What do you perpose to do to remove the allting accumulations from the Owenent—Ehat is the most difficult thing in the world to settle. It is a matter you cannot generalise. First of all you must move so that it will carry the silt, but it is almost invocable to do that when the velocity varies between

summer water and winter floods. The real case is to go to the source of the sait, at the head of the rive. that all coming into the river. Once you get the all rate the river, they are in the label of perting ways obvious that when these self traps are filled up, thus are no langer any good. You may clean them out a 384. Then with regard to the Oweness, what do von intend to do !- To degrees the velocity of the water

on the upper maches.
205, Three will be no danger then of 10% being ventnaffy deposited lower down built are afraid that is a matter of very great anxiety 286. There is that decreer, that the silt brought down by the greater velocity of the water might he water might be again stopped !- You, and the only thing we will have to do in to endeavour to be most carried down, at the same time taking core to have sufficient velocity to keep the main circumst accord engineer can be certain to succeed with regard to. 287. Mr. Surre.—There is a very luge quarter,

I dage say as much as from the Owensast... On you, there 288. Lord Connerrows.-I appraised that if the works you propose ore rearied out in their entirely there would only be an infinitesimal danger, except in very high floods, of the water rising above the level of the river and flooding the high-lying lands on each

ing, " Except by exceptional floods "!-Yes. Breen, about which you gave us the small with regard the same in the first restance, it came down very slowly, but under the improved state of things it now comes dawn very rapidly 1—No doubt, these are matters of degree Quoud the upper part of the Rathargan, I don't know the length of it; if you cleared of hay grown on watered mendows to not owing to the Barrow where the extenment at Carlow is double improvement of these 50,000 acres will not increase the volume of water in any appreciable way at Carlow 391. In voint of feet the cutlet at Carlow a suff riently large to receive the large amount of water that you will soul down at once !-- We will say there is age of the Burrow takes place, and when you drain the

Burew was will find one thousand radion and on galler, or constiting that way, going, which world 293 Would not that very one callon be liable, if the edge, and the one gallon would do just as such harm as a greater increase, provided it was multiplied i

-Well, no; I think it would not be ammenable-I 283. Then it comes to what I stated-that the outlet at Carlow in refliciently kerge to take may exten deal of conneleration. Your locality has assumed that No one yet we mail increase the velocity in the river one work with 300 from the O-remain and the other other plants are to be a second of the other of their, find to be receive. On taged the other of the contract of the other other other of the second of the other other other other other other and to make a profit of the other wall be examile or not not engineer one-street, the wall be examile or not not engineer one-street, the wall be examiled to the other other other other wall be examiled to the other other other other wall be examiled to the other other other other wall be examiled to the other other other other wall be examiled to the other other other other wall be examiled to the other other other other wall be of the other other other other other other wall be of the other other other other other other wall be of the other other other other other other wall be other other other other other other other wall be other other other other other other other wall be other o

estimationary idea was formed when these shires were put up. We have found that we millered the lands from the ordinary floods, but not entirely from the winter floods, but not entirely from the winter floods, for the clear that we will be used to be us

400. Air Berray,—In now the east of the common Mellerul from the Berray in this—Bain in the Starnios year have then the Berray in this—Bain in the Starnios year have not get them, and in fact what yea propose to do set to take may anything in the obseque of a necessre that now actisat—No dentity so one right in thos. There is a good deal of efficience between the Starnios and the Berray. Be it laking of the food recovery which are have always and the food recovery which are the man of quantity of water with the food recovery.

294. Will, I was registed I must vey. I can bound to low to row water knowledge, and I can see your evidence surprise the contraction of the greatest account in country, but allow use to put a cost of the country, but allow use to put a cost of the country, but allow use to put a cost of the country, but allow use to put a cost of the country, but allow use to put a cost of the country, but allow use to put a cost of the country of the country, but and the country of the country of the country of the country of the state of the country of the 20 feet of the country of the country of the country of the 20 feet of the country of the country of the country of the 20 feet of the country of the country of the country of the 20 feet of the country of the country of the country of the 20 feet of the country of the country of the country of the 20 feet of the country of the country of the country of the 20 feet of the country of the country of the country of the country of the 20 feet of the country of the country of the country of the country of the 20 feet of the country of t

sometimes of the second control of the secon

2014. Lord 'Contrassiones... Here may extendination been trade below clother on the Culture to the travel to street the been trade below clother on the Culture to the travel to the contrast to the price travelet to the price to expect require the contrast, and the contrast to expect the contrast, and the contrast to the price for terrary what I all this measured below the Culture as to the price for terrary what I all the measured below the contrast beyond what I all the measured below the contrast beyond the contrast to the contrast the contrast to th

120. I was going a suggress that, I don't know what New M. Inc.
the river is like there—I rever was down the river in Reduct
beyond Ady—I have been down the river from New Hanning S.A.
Each to Wanterfor, 100: I have never soon the between

SM. You didn'ts you consider that in maniful and that this action is into extinctly you would be able to real through the channel of the Barrow the same openable you make. What I sprephend you make it, but the volume of water would be more equal but that the volume of water would be more equal but service; law, and its wholey very high—you may you would be able to true it mere openity—I think! I

would be side to run it more equally.

301. In that your experiment in sid those nort of
things I—I climk so. When you have many decads in
a girur whose regimen as not settled, you will have
Boods in one portion and not in mother, and by making
a design for the whole district. I think you will be also
a discharge the waters more regularly and evenly,

to discharge the volters more regularly and overlay. No. Well, like a instance before as F. is not a large change discharge in the live obstance of the large change discharge in the large change in the large change of the lar

This has enough the 400 means, and 400 ft and supposed produced in the second product product

ye deficence.

95 Mir you say that would not affect a large
in river?—No.

944. The smaller tributaries coming in would
in affect the large river, which would by that means got

"No morne granden beite queeness and product of the common of the Common

Mr. Robert

urner waters have time to some down, and you have a quantity of water which comes after the food has gone away from the lower, but then a second min would

306. Then I may raisly assume that practically the result in the Europe would be from these works that you would have an equal volume of water throughout the year !- The works would tend to equalize it. 307. And that there would not be in scorner time

too small a quantity of water—that at would not be lessened to may appreciable extent?—The promore water would not be lessoned. For instance, with regard to the main Barrow at Athy, the design was to urhold the Duke's weir, but put a number of aksees to

it that you could take down or put back again
808. That in point of fact would mente the upper portion of the Barrow a sert of reservoir, so to mean

509. And by reason of these shripes you would be sisks to writer the water In. Yes. 310. And, supposing there was a dry stanmer, and you utilized the Duke's wair as a reservoir, you would cut off the supply from the lower part 1—Ok, no, you would never do that. You would keep up a constant

level-a constant supply. The Commission adjustmed till next day

THURSDAY, 25th JUNE, 1885.

The Commission met at La Toucke's Bank premius, Castle-about, Dublin.

Present:-The Right Hon. HENRY BRUES, Vice-Chairman (presiding); Sir JOHN M'KERLER, K.C.R. Mr. J. A. CARSIDY, Mr. HASSARD, C.E., and Mr. HUMPRICEY SHITTH. Mr. PERNY, Secretary, was in attendance. Mr. Robert Mouning, c.s., further examined.

311. Mr. Battre.-On the second page of your report, Mr. Manning, you may that the area of the And is it upon that calculation that you con sider 400,000 cable feet on amount in the prospect

quantity that may be expected to pass Athy bridge per minute 1.—The clots upon which I founded that quantity of 400,000 cubic feet in derived from my own experience in different elistracts, and one instance was 315. Well how upoh ner agre days that 400,000 sable feet nor minute remement !- One foot, roughly,

But if you go to another part of my report I think you will find I say that after a full constitution of ouble feet per minute might be restated to 350,000, but that it is more product to take the 400,000. 314. On the third page-the tables-you give the

\$15 Does that mean the depth from the surface of

316. Sir Jone M'Kerare-From the bettern of the improved river !- You from the bottem of the

517. You said the bottom of the river !-- I should feet, sade slopes one to one, that the douth at greatest should be iffeen inches per sule, which dimensions you will find would discharge a quantity of 411,000 colds

318. Mr. Barres -In a former report, dated Augest, 1884, you have given the militage of the different branches of the new cuts that are to be made. but I don't see that that is given us your last report dated 15th June, 1885. Are we to consider that the nulsage given in the report of 1886 is what will be under the works proposal !- Yes. I have given the mileage in my primary report as the length of the Barrow from its source to be fortwoeven miles, and I think I give the length of the Fagile to its yenction with the Barrow at mineteen miles. But though the length of the Barrow from its source to Athy in fortythan forty miles, which I think you will see in my DITIESET PODOFS.

319. Then, we may take it that the main river will be mak for 40 miles in length, the tributation 173 miles, and drains 1825-As marly as possible. 33). Those original figures stand good!-Yes, those and make no approachle difference either in the cost

Mr Berry.-These are the only questions that court to me at the present time to sak you.

Set!, The Waters -- Before I love you, Mr. Bruen you were kind enough to give me some quantities yester day, and one was:-"Assuming that one Inch and a half of min has fallen in 24 hours throughout the catchment beam in ste postent unimproved state, and that your works are carried out, and in consequence, much water per minute." If I accept these assume tions, the conclusion is manifest—if was discharge will be discharging in each moment, on times the look; at all about that, but I doubt the assumptioninch and a half of man in 26 hours will be you off in

20 hours—that is a complete impossibility; in fact, scooning to that, it would run of quicker than n full. That could not be so. Then, if we consider that practically, in regard to dramaps, the whole quantity which is necessary to be dealt with in water supply, to drink, but, practically you may take it, as predifference after the drainage in the total quantity of water Then, if that volume of water is dissharped that you would ducharge the whole floods of the would be none for the other ten months. I short think that is what you mean, however. The difficulty in during flood time, and if you do that, then what would be the consequences? I have stated that the distance of the Berow will be 000,000 orbit for pergraphing and produced to 000,000 orbit for perpenditude, and produced 000,000,000, but we'll take it is at exect lens, my 100,000 person, it was not that down it seem tens, my 100,000 person, it was not that down the person of the person of the person of 100,000, 100,000,000 person, it was not have the perpetent person and the Berows. And, I may done now inferred up as matter of fact, that if the Berows perpetent get an antifered monor of more; you had to be the person of the person of the perpetent get an antifered monor of more; you had that they liked, if would, it my optaton, he a perison ampossibility that they outd infraregular that quantity.

of tands that are releved and the doppd as which the water from sever them. In fact, to go to the very spooles into of the question, I now tell you theorotically that the demanage of one steple same of I and the control of t

very fedness prevents my being able to take in the whole until I see it in print.

322. Mg. Sterra.—There is one thing which I think

except your attention, Mr. Manning—the Owenses, Nov. 9, 1888 into these a very quite flowing stream down half-way to Ouchew, before the upper part of the Tringers in Composit—it is no during, but I could not give a none specific sourcer without pring into the quintion surrections of the could not give a none specific sourcer without pring into the quintion surrection.

19

23. I have from presented observations that that is the mea—that is in down at present approach! a day drown, because the upper flowed on the flavorest cases of the present that the present that and the though a very decoration shift-time and with not all the change of the present that the present that the present also comes derengle, a level part of the evaluaty, so that the flow of the Corcons works it forthermost connection of the present that the present the present and in cransquerate of data part of the country belong and in cransquerate of data part of the country belong to the present the present that the present prevailer Silvers, and late a quantity the so forther than the present that the present the present present the variety flavorest the present the present the present pretains the present the present the present the present that the present the present the present the present the pretains the present that the present that the present the present the present the present the present that the present the present the present the present the present that the present the present the present that the present that the present the present the present that the present that the present the present the present the present the present that the present the pre

"M. Ale, brown.

"M. Ale, brown.

"M. Ale, brown.

"M. The proper plant when line for electricars in referencing the 100,000 feet per allorate—Cornisipy.

It is a nose extraceding office. There was not some construction of the property of the second of t

discharging point together.

22 The Control of the

a 337. Dot these are the main points !—Yes.

Mr. Haisana, C.E.—Does any record exist of the
maximum facebage of the river new at Athy—in its
pretent conducts !—Not this! I am sware of:

338. There is a mail of Athy—a millowase's weir!

28. Would it be resulthed by you havely, to got user
a proportional enteredistic peeps that milgets 1—1 do not
see that that it would. I have had a good deal of seperimen support in the reasoning of Bood disclasses,
of said [8] were down as the Barrow tentures, and the
ord souther of the 'wer', and that these was a Bood
of going over 15, I would find very great difficulty on
longing up round of the quantity of water peeming

are noticed by distillation grained in a vertical way to the contract of the

See 1 1999 and not to be yeared by the limit with the very uncil, to could get it is not think that as for eye questions are not not very good information of processing or to the opposity of the areas to be points where this most strings would see the points where that may show that they have been seen to unform our processing the most type of the Burnow now, would be very difficult of the Burnow as the strings of the Burnow as the strings of the Burnow as the strings of t

No Bobert Maxing, c.s. good inten of requir, that we entile get the representate questifty of water persing over, it would give us a very good take of the discharge !—Is wead, ten! I should prifer goon on other other allegation. If I know the calculations used in a place where the authors contained to determine the entire the product of the price of t

that he had partially excepted the works, and that he had drained about 5,747 area.

335. What is the whole drainaget—The total drainage when completely finished, was 11,968 area. 36. In that the whole of the drainaget—Yes; that is the whole of the drainage when it was com-

pictures 1.1. I designable for was a longer understobling than that I will be the was all. Well, in that your, 1864, their own as very great mindful, and not only a great regard, the control of the control of the state of the designable, the their season of the control of the state of the design from the state of the design from the state of the control tands—Veg. I marking the ears of the state of the control tands—Veg. I marking the ears of the state of the control tands—Veg. I marking the ears of the state of the control tands—Veg. I marking the ears of the state of the control tands—Veg. I marking the ears of the state of the state

vor, as to speak. That discharge automated to $f_0^{\rm M}_{\rm F}$ of a callie foot per calmito.

340. And have you any record of the mindall ?—
The mindall was 30-46.

341. That is the year's mindall ?—I have the min-

Sail bere

342. I mean the rainfall provious to that particular

560d 1—Yes, I have it leve.

343. That was in 1851, I think you said 1—Xes

(offer examening papers), I find I have not that record

(after examining papers), I find I have not that record here. I think it we use into he all all mirallal, lest I can give that perfectably, and I will seed it in to Mr. Petny. Well, the next problem fixed that Mr. Petny. Well, all the problem of the perfect gave a discharge of 335,000 ceins feet in the miraland its next food that courred was the great flood of 1877, the results of which, in the Bann dressage, I have given an my report. That was a weaderfully

great food, said very generally fifth.

344. That is the Lough Noigh dealings 1.—Yes.
We find that though 50 by inches of suit tell in the
year, the maximum quantity of water ducharged year.
220,000 subto feet per minne, which is as against

287,000 subso foot a few years before.

\$43, Do like take zato consideration, when making
that calculation, the vester demand op as the before
Lough Neegh. ——I give no quantity for Lough Neegh.

346, I thought you give 220,000 calze fore per
mirries as the maximum dealering there in 1877.—
No, I am dealing with the discharge of the Become
fewer all through. The next great food give a dis-

control at 100.

"We finar here been align elements as the level and the state of t

charge will not be user the 40,000 critic just per signific. If it was a matter of money, not to say inderinance, from going on, it would not object to take the shadinger of the flowers district as they as 200,000 outle feet per minute, that is, if it was a quanting of whather the vertice would go on, not. I would noy take it at 300,000 cashs feet per mirrate, but respective what I told you of these categoristicsy floods. 348. Mr. Hausann out.—One earliey feet per may per minute in qual to 400 of an intel of rainf deemy

off all the ground in \$4 boars |—The way I have taken it is this—that 4 tuches of each will give you 10 cross feet per area per minute for 24 boars, which is very marry equivalent to what you my. \$19. The velocity of the water at Asky—calculating upon your signes of with and steph of channel, with these root is on. I made 200 feet per simple. No.

upon year figures of width and depth of channel, with slopes cost to case, I made 240 feet per mixtus b—Probolity, I sold that I cadesevened to make the whole of it 4 feet per second. 550. You have the slopes case to one I—I have made the slopes case to one, but it slows not make made difference in the disolatory, after all. 551. No, but it would made considerable difference

as eggs the satisfactors are considerable discreases as eggs the satisfactors are considerable as eggs as satisfactors are considerable as eggs as the satisfactors as Agy to Beet to reck, it would not eignify so took, but no cedimary presentes, my experience is, that most etcoper also estate two too to one are not set all mick—I have found in my experience, that etcopes of one to one would not state. These was matter of the all who weed look states. These was matter of the all who

would not stand. There are mattern of ideal whose numb to looks to constill by the engineer who has charge of the works. 30%. I know that in the Bathangan district the slopes were set at one to one by my predocusary, and we had to abbre them 1—Bet what was the velocity there, might I and 1

304. If who not to generate you have here 1—I doubt at that your, nooth, as not, indeed. I would containly any—make your channel whiter and your alopse line of steep 1—8s, Sin 24th MK relie and your alopse line of appeal with him, but not I have already observed, that a general with him, but not I have already along you the best hooked into for overy three or four man, 250. Recipional settors called to care, for instance, in the contraction of the contraction of the contraction of the 250. Recipional settors called to care, for instance,

di 506. Econjúcoal oderno trilght ocera, for instance, in instance, Seriposon; data the designage was devoid ji no evo filmintis, apper and lever, it takes about a feet to prove one of the lever, then it would take about sight hours for it to get down about halfway, supposing at Bored with equal weight hours for it to get down about halfway, supposing at Bored with equal weight he while distributions of the series o

in a charge state of partial the work for the design of the control of the charge state of the charge stat

quantity essing down, but I stated that any waits yes our excute on the Barrow will not have the slightest effect on that.

316. No doubt these two and exceptional storms do now at these internal of true, and consults much

do occur at long intervals of state, and, ginerally spalling, I agree with yer that it is not worth with making the works to note a case of the hard—Not first of all I wall be curred, done in the worth tables sead keep year steer day, but suppose yes out that food down quickeys, and asppears; we have a food two or then foot deep, what wall it can footisticated afforces on the quantity to be dicharged. The foot is that is the numproved distracts Sood will go on untill yet fill up your intervals are and when after that a second flood comes on, it is dis-360, Your impounding spaces all being filled !-Vest and if the food door not rise further it will

361. There exists, I know—and I saked you to bring the book for the information of the Consultationthere are in reports; on the Shannon drainage several instances in which drakings areas are quotes, still the know to be very smaller to the Becrow, and I think it might be estimated by to mention them !- I have the

362. Mr. Barres.—Mr. Mandag mentioned the case of the Sharmon at one of our former sittings as an example of what reight occur in this case, and I asked him to consider whether there was use this down at course which not as compounding recurreirs, and that in the case of the Barrow there were not

The Fitness.—Yes, and I quite agreed with you that as far as the lakes were consumed that would Secretar at a place where there is no reservoir-in-show that there is no material change upon the height of the discharges of rivers within and contiguous to the texts of the Shannon. There is the Woodfeed acre per minute was 1-12. That was ascertained by

303, Mr. Hansand,-There are one or two amall coming down with very great velocity. Ser John M'Kunter -- It is a very small district, Mr. Hassarn.-Oh 100,000 sore

264. The Widsess.-One-Sourth the size of the 365. Mr. Hassana.—Now will you give us the Upper Erne distress sijoining that 1—The Upper Erne is \$16,000 agree, and the discharge ascertained from

asted measurement was 0-88. Another river, the Trove-the area of the min book is 231,116 acres. and the darcharge is 0.88 colds for per nero per 366. There are some lakes upon that drainings

weak! -Yes-there are lakes upon it 267. Sir Joux M'Kessan-And that I feary is only the old district !- Yes, that is the old district

fact the question of compensating by a reservoir or by In France they have publivery particular attention to this entire subject. I have seen a flood on the Scier which you 15 feet over the ordinary level of the river, under Government, and for a number of years they watershed with brook marks along, so that they are a'llo now to noteally telegraph a flood-when it will come at different points of the river, and not only that, has the height of that flood and the time at will

arrive at. So particular were they and so auxious to Jacc 95, 1886. improve the drainage areas of the Some, the Marne Mr. Rabors and the Yeans, they got a communion appointed to M propose a control of the flouds by the srection of occapenesting reservoirs. The engineers made what they orm an amount project,—or what we would call a prelimm

would not have the sughtest effect down the river immediately above Paris. So that the whole question of the effects on the co-efficient of the reinfall in a large ductrict, is a subject that carnot be generalisedan accurate co-efficient. I have been working at it, I suppose 35 years myself, and I have got a little way

fed, may I ask, with the amount of the ducharge of Mr. Hamann.—Well, I would like to see the lossing

349. The Fitners.—I can give you forty, fifty, or one lemired other cases of river discharges. I suppose I need only give you the drainage areas and the discharge -I need not mention their names. you had better mention the names, because it may

371. Logh Salesz where is that !— In the county inys. The Dramovan district, which is in the county

charge 3 90.

27 I don't think these usuall cost are of much importance, if the drainings new was storp, and the arm small, the decharge would be very large so conpared with the Barrow district !- Very well, we will pare to the largest ones. Balliamore and Bally-ouned district, 90(00) acres; co-discinst 1-12. Then there is the Ferges district in the county Clare, 104,960 acres ; discharge 0-76.

NY3 Ser Joses M'KESLEE.—That is a very peculiar district you know, not only her it lakes, but there is a great deal of underground discharge i—Yes, a great

374. There is a great deal of subtermount discharge what you say. I have seen rivers emerging out of how the Royne district, 304,139 acres, and a discharge

Sir Jenn M'KERLIE .- That is a very fair example for comparison.

575. The Witness—Next I see Loughs Oughter

and Gowns, counties Cowns and Longford, in the western district, 360,010 seres, and discharge 0-65 Then the Lough Courth district, county Galway 780,000 scen, with a discharge of 0-89. 376. Mr. BRURN.-Ent they have got a large renerver there too !- You The area of the Lough Bron

abundy given.
377 Sty Joseph M'Knears.—Those figures are not

serves trem your own examinate—usey are breat out records I take at 1—Yes, they all appeared in Mr. Muleuny's evidence before the Lords in 1832. 375, Then would it not be better to give Lough

Ame 21, 1815. Mr. Robert Earning, c a.

No. Neigh as stated in these records, also f—Yes, the area was at that time, 411,520 area, and the coes, efficient 051. I have given the particulars 1 don't know whether they are the same in the report I subwritted to the Convention.

know whether they are the same in the report I calmitted to the Communion.

So: Jean MYKERER—It probably wares very math—it probably does a good deal at least 370. Mr. Bauss.—Aw those figures the maximum t —Those we the maximum discharge observed.

380. And during what period or length of time were the observations carried on 1—1t varies. During the time that the arterial durange of Irstand was being correct out numerous observations were made, and in the year 1812 those were the maximum results observed in each of the districts I have needed.

Mr. Hasant — 1852 was a very we year!

Sr Jones M'Kranz — The greatest flood that
course in Includ—Leaves at all events during the
proceed contexy—was in Junivey, 1833

381. The Privases — Dec. we handler in 1861.

By Jones M'Kranz — But the largest flood recreded at all averant was third Junivers. 1869.

cocked at all events was that of January, 1868

His Hamann—At Manchester in 1851 they had by inches of manfall in five days—at Woodreed.

Near Dublin, about two years ago, as the Dodge valley, where the Ballantines waterworks are, we had

\$19 feebes of restability explates from:
382. The Williams—Mr. Synator, the recorder of
reinfull, whose we all know, has, after a number of
reinfull, whose we all know, has, after a number of
rent expectation, should his opinion that sugments
must assure or later make up their minds to deal with
a meximum reinfull of four undes at the day. Proot
all his experience throughout the kingdom he mays you
will have some or later to deal with three to four

undersof minfull scher.

Mer Haussan.— The service shade a very multiple Mer Haussan.— The service shade of the Mer Haussan.— The service shade of the State of t

for a discharge of three flet and a half per acre in those western districts, and you will see by my report that I was perfectly right in that.

184. Mr. Harasso —In the apper portions of this

district I believe you have saless in some once three feet per ner per minute t—I have Bir Jone M'Kraum.—Will you tell us, Mr. Hassani, whether you think sufficient provision has occurated for the discharge in Mr Manung's estimate 8

Agentia so present a security of the desired properties of the Wittenson II. Doking over those shannels 1804. The Wittenson II. Doking over those shannels that I have presided, Mr Hossod, you will find in the II. I have greatly the shannel given, but the question there is more of velocity. Mr Hossano — I would make my great make the chamber of the behavior of the control of the properties of the control of the properties o

cannel a major and the velocity a little less, became I think sayshing over 300 feet per mirrie a sether dangerous velocity. You may have a little less velocity, but it will be less destructive and would be less aspecials.

Mr. Butus — Have you completely game over the

ground you would like to go over, Mr. Hassacd, with the witness 1 Mr. Hassaco — I think m, I would just like to see the district and the rivers before I farm any more

Mr. Hamans—I shink m, I would just hike to use the district and the rivers before I from any more definite opinion.

"380. Str. Eurus.—(To writeen)—In there one uniformformolof educations which governmall these figures

frequently you have a check upon all this by excepting the discharge a gring through an eyen obtaining, which the unabange flowing ever a wair in the some channel, to insecut on white there excludes all colonisties, but the results obtained at colonisties, but the results obtained at all those case may be given as other-results and about the engineering of a continuous of the rame who makes the observations.

2007. Pertify by theoretical administra of their eres of crastedly and partiy by the observation of thou, are causedly and partiy by the observation of thous eres of crastedly and partiy by the observation of thous the crastelly and partiy by the observation of them.

have quoted for us !- Those cannot be called calcul-

tions, they are more observations. The first step is to successin the limits of the watershed and area of

upon that map. You then by that means obtain-in this case-the 400,000 acres that I meal of as the

known form You can then calculate theoretically the

cor, remay of profit by the observations of the sees of minfull and partly by the observation of finals, worked on the water at a point of discharge t—Either way will do. 188. But you cannot tall us which of those means of calculation or means of observation were adopted

our selection descendant—I turns good of trees consistent washing were from the discherge, through intrigue.

389. The Wilsten—Whenever an organizer on get at with a Recomm themselves and high it is the too among them years, of paying the quantity of water washing the paying the quantity of water would eithild on the production, but it is not to very nutter as most people think, to go to a bridge and will be quantity of water going through it. If name to done with very great cere and interior.

See door Whenemer—You is just, that I know for

won calculated as Robascon bridge, which was a very complete bridge with very conjector entous at 1 no complete bridge with very conjector entous at 1 no wave that in the offsited there was tager extracts a very well concents rede contrigue, the dimension which were known, and goages were yet up so as a which wore known, and goages were yet up so as a tell thas actual height of water and the full, noal they estimated the discharge from the suand terminal. As the Jacob Merine was, May may have develoch that

is audion of featherly the distingent thought a sughten201, 3.1. Hence, "The distinct," propers is as,
it is such as if this value we have the most of
the such as if this value we have the most of
the such as if the such as the such as the
tage entries of resident prince the constitution—
to the such as the subject we provide of the
constitution of the such as the subject with a such as
the such as the subject we to request to the
own of the Survey, with it is put for the prince
to the such as the subject we can that strength
many districts of the subject with the such
many districts of the subject with the such
many districts of the subject with the such
many districts of the subject with the subject
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many district

theory, I found that the full I would have calculated as the theoretical con, would have just differed from Mr. Levey's full by one elgish of an meh per mide quantity which could not be observed. 1923. In your calculations do you take the velocity of water on the bettern to the name as the weboilty of the water on the surface 1—On, cretifully not; the mean relegies is what we state. All the Xe and Ye ones relegies is what we state. All the Xe and Ye that punis a person on much in these hydronlic fermula, have been a number of your ago, given to the English sublic in general terms by Mr. Tredgold, drpile, and the mean valuelty of the whole flowing water is still more nearly muc-scribs of that propor-

mentioned the matter in my report 393 Sir Jone M Kegare - Goleg back to the general execution—at the foot of the district—at the outfall of the district there is a weir, at Athy !—Yes

384. Do you propose to lower that, or to remove at, or what I -- What I propose to do with the weir at Athy is this—to construct, if necessary, a set of shrices to it that would be tantamount to removing it altogether, and if the miller then likes to take a resemable compensation for his mill; that it is a matter of public policy, and that it will do him no harm to destroy it, there will be no objection to paying him a many compensation; but I have gut into my esti-mate a sum of momey which renders me wholly in-

dependent of the neller altogether. 355. Which will cover it under any elecumetances? -Urder say exemustances

556. The netting in slufers will not be injurious to the area of the absises will be equal to 597. But then, that of source entails the necessity

of having a superintendent at the shrives—on samual not i—Yes. 208 Mr. Hareann.—Is that Mr. Harnan's mill that you speak of 1—Yes. It is a very time besiding, and was could in its time, but the waterpower of the

319 Ser Jones M'Knazes --- Are there other mills? -There are a few mills. I have the particulars of all the mills, but there are only one or two in which a nuffing hadron in carried on. There are some triffing wills show! Marritroellisk, and there as a factory there.

400. There is a great extent of bog in the appear Philipotown telbutary and the Cushine !- There is a

(0) Bet, however, a great perison of it is bog; w not it a vest extent of bog, part, in fact, of the Bog

or Alen -- 1cs.

602. And will not the effect of the works be to considerably lower the level of the water adjoining

these bogs !—Yes.

603 The working of the bogs is dependent upon the level of the water !- Yes. 404 And will not the lowering of the water

through the works render resigned the excepting or rutting out of the bogs to a counderably greater 400 Perhaps the matter does not properly belong to your department, but would not that appear to be

conforming a very considerable additional value upon those bogs, emposing even they are of little value how !- Yes. But the question will become a very complain that the durings has fulfed, forgetting that they have lowered the level at which we originally started. I have known various cases in which persons entting away bog-for instance, in the Longh Neigh

406. The result, at least, is dependent upon the demand for tarff-Yes. 407. And with such a vast extent of bog it would

Sir John M'Krazer.—The reason I sak the queet Marring 62 tion is, that a great deal of that bog was taken in by former valuators—into that so Mr. Pessor 1

Mr. Pessey.-Too, the begs were curveyed, but no valuation was made. Ser Josep M'Knazon-Bet surely there was a

Mr. Penny -There were low margine of the bogs

reports Sir Jone M'Krizzu.—That is what courses the

difference, some bogs are struck out. These bogs hold become thoroughly saturated, and in that way not to a great extent as compensating reservoirs. They Mr. Harmann—They are sponges, in fact Mr. Fitagerall gives the area as 40,841 area flooded and

was considerably more than that formerly. 608. The Watson-H you look at my primary report, you will find that I made a rough goos of it

609. Have you that possage in your supert 1—Yee, here it is—"being anxious, however, to furnish all the information I can I have contained a curvey, provided completed, more than itsety years ago, and I think I compet be wrong in estimating the total seen

in value of the lands, if so improved, at £17,000."
Mr. Hassann.—And here is a report in which I have it given at \$2,000 acres.
410. The Watness.—That is a report of Mr. Bower's

Mr. Hassann -- Yes, and he puts it at 52,000 zeros.

the Rathagran drainage being covied out, though, 411. Mr BRITES. Mr. Manning, I should like to made no such provision. Mr. Hamago.-From vey experience of the adiato-

eand, and gravel slopes of one to one, were not suffi-olent at all. They would require to be much flutter, Mr. Burns-It is cortainly within my experience of the little works that have been done on the Lorr. that they had to concrete the banks there for two or Mr. Hassern.-I did that, and when they were

shreated to I told Mr. Hamplton, the Duke of Lemater's agent, that the inclinations were so storn inadequate to remo the foods. They were afraid to incur say further expense at the time, but the result Mr Barray.- In there no fear that in some part of

the Barrow's course the same difficulty may acise and 412. The Witness - No doubt, but I have not gone over every portion of the rever's course to see where that difficulty would artse. But no doubt you will

all ombigurers.
413. Hz Hassaun.—You have a sufficient sum flown for continguacity to cover all that?—You. I can tell you (after looking at estimates) I find I put down 12 per cent for contingencies. I think that the destruction of beaks is very often due to the direction of the streets not being parallel with them. be a very long time before it is required, but the time

April 25, 1511. 414. You, not being straight !- You, and the diffilittle jumps. If you have not a very direct and unionly has now been freed even in straight chausels. Mr. Robert The Communica adjourned to 8th July, at Phillys.

July 1, 1868

WEDNESDAY, JULY STE, 1885.

The Commission rect at the Convinces. Philippings. King's County, payment to public advertisement Present :- The Right Hop. HEXBY BRUEN, Vice-Chairman (preciding); Siy Jone M.KERLIE, K.CR. Mr. Hassard, C.E., Mr. Humpetrey Shite, and Mr. Cassidy.

Mr. PENNY, Socretary, was in attendance.

Mr. Tales R.

Lordon, I have to say that the Commission mouts here by the styre Berrow and its inbutaries, and the improvements which may be made by such dramage Public action has been given of this spletter, and we 415. Mr. Toler R. Garney,-Mr. Chairman, I ask

Mr. Berryr, opening the proceedings, said :- In the

which belong to him. Now, I desire to sak the Our-minimum about the proposed that the drainage charge should be paid, if this work be carried out? There are two matters I wish to ler before the Commissioners—the first is with regard to the to the proposed increased value. Now, with regard to the charge upon the lands, if the drainings works which are contemplated be carried out-these lands

proved by drainage.

Mr. Bruyer - Well, I think I can give an accover to the lands flooded by the Berrow and its tributaries long of public mency, whether, as consuleration of the surgitary or other benefits to be derived from the

should bear any portion of the charge in repayment of the loan ; so that your question, you see, don't very Now, one of our objects in mosting here to day is to acceptain from those interested, what they shink on

416. Mr. Garrey .- You see, sir, it would be muziand leave him afterwards to deal with his tenants in the King's County-perhaps more to than any one no benefit from any improvement that might be

Chairman that the fact of the pedicial rents having

way affect the landford's right to recover the due of any improvements which may be made on the lands ender the Drainings Acts—you have the same newers as under the cell directoristance, before the Mr. Garsey-But, I must my that I totally arily charged with the drames and then be obliged to great differences of opinion between landlerds and that it would not be right or proper to put the land consenting parties to the work going on. Now, have

this affects the tenents, perhaps, more than the propresent was moken of, the occurrence were very partle alarmed at the size of this small terbutury being And it does seem to use that the valuations are instead for beyond the value that they would during, Now, in the one of the first township, (Galgari, the whole township secondary to the survey is not to be after fleeded or injured by fooding. Well, that, I dea't dispute; but the present actual value of the land to be durated or improved in six down at 664 in. 24, and I may full you that that is a higher rate of value down the original section—a higher next, must you, than the result were before they were revised, and considerably higher than these result on on the present.

the yeath work before they were reduced, and considerity's higher than these media are as it pretent.
418. Mr. BORDS.—Do I undertuckly yee to say that
418. Mr. BORDS.—Do I undertuckly yee to say that
504 in 3-40 in bugber than the present values of the
top of the state of the present values of the
top of the state of the present value of the
top of the state of the present value of the
top of the state of the present value of the
top of the state of the present value of the
top of the present value of t

only 2.53, while the lands are set down there as being share for 5.64 in 2.6.

419 That is in Mr. Pittagerall's valuation—I don't have whose its—I mostly give by which appears are the face of 2.64 selectatio. The probable increase in the present valuation is yet down at 2.60 in 2.4.

439. I ahead like to take down the figures of the steps of the property of the control of the 2.4.

439. I ahead like to take down the figures of the bests just before the individual control of the con

reats amounted to ATO, and they were realized to £48. It is not all lie in one helding, you know.

425. St. John W. Kranam.—But you have taken six globe the whole townland of Galgagh 1—Yes.

426. Portion is stated to be improved only, and portus though 4.—Yes. The whole townland is swited to the many forced. —Yes. The whole townland is swited to

time theoried i— Yes. The whole townstand in sensed to be owner migroid or flooded.

428. The main spectico is, what you look upon as a few value for the improvements !—I am just coming to this. But, I first of all wanted to will sideration to what is called the present value, with the view of

chas in called the present value, with the view of showing that that he put down at rather too high a figure. 424. When the scant that you mentioned these of the whole townhead of Cologols 1—Yes. 455. The former root was £55, and now in it £481.

- Vec. 458. And that included 834 seres!—Well, I don't how—I think there is a lot of high bog in 18—an screene quantity of high bog. You have 343 some down so being injured in the two townleads; I think the whole is 435 seres, but of course there is that.

high log. 437. Mr. Barrier.—But these objections which you take are for the townheed as a whole I—You, 45 o whole.

whole.

428. You don't go into the question of dataffs as to
Mr. Pitagonski's valuation!—Well, no. I have not
been been been administration.

that there is so much set down at 4s. 6d, an array and so much at 5s 6d, the impressed value per states error.

199. Part of the level, no skutch, is bog t—Yes.

139. Dust part of its is arable last!—Well, so.
New, coming to the proposing probabile increases of value, 260 9s. 2d, respecting the final to be over so well formed. I thus that it is more connectation recovery.

value, now it, old, a supposing our sizes to be even so went forms out of the production of all benefit then would be restricted in the production of all benefit then would be succeed, manuscul, as the whole of this loss is more. There is now a seep of uplaced in this townshead. Such along the sales of the rever there is a slight summy objects which makes a let of mandow, but there is not a some of uplaced in the whole townshead. \$43, D.O. I more contential you, by the loss such that is, \$43, D.O. I more contential you, by the loss such that it. A considerable pertine of it is under collection, but will it is black more—by it long—and makes no stream.

status acre.

432. De these comprise all your objections on the part of the Earl of Rosse, in relation to this townland of Colgagh and the valuation attached to it 1— Yes.

453. Now, have you considered the townland of

Clonavor !-- Yes, and I would make the same remarks with regard to Clearance, except in this particular, that Mr. Take II seems of the townshind of Clearance is upland. I have Garney. to objection to make to the quantity of hand that is stated to be flooded, or injured, but I do object to the valuntions. Of course, it makes no matter what the present actual value is not down at-ut is of no reportunee; but I would point out as a fact, that the tigues set down as the present actual value, harrowns, again, to be in excess of the rents. That, howeven does not affect the question-at is the increased value that is of impertunce; and I think the estimated mercase, considering the quality of the ourned out, is extremely high. It strikes me-but it is only a conjecture, I have no arthority for saying it-but we all know that the dusings of the Barrow is a very costly work, and it would neen that meno of the expense of draining the main channel was prois quite right that they should pay for the outfall. Ser Jones M'Kunzan.-I think you are under a misasymchession as to an undue proportion of the expense taken into occasionation at all by the valuer in putting down his estimated improved value. You are quite under a misuscrehensian on to that. The concept he

and the design of the control of the Disposers to the state of the Disposers to the state of the control is the whole interpolate of the control the two bears of the vertex being more or less.

544. His Georgia—I am glad to be corrected—I stocked twee namely a conjustion on my gasty and, of the control of hands in older the control of the control of hands in older districts, thus those had been valued in this or manner when the control of the control o

assacie is very age.

433 Mr Berters.—With regard to Clonavon, on you give not be whole arrouge of the whole towalized.

15 Indiana is not included in this schedule here.—Those will be a series of the schedule here. The series of the schedule here. The schedule here. The schedule here. The schedule here. The schedule is the schedule of the schedule of the schedule of the vertical forms and the schedule of third the whole of this towalized of Colgagia was either in facilities of the schedule of third the whole of this towalized of Colgagia was either in facilities.

at 457. And, therefore, we have here 259 nores set from as long the total seas of Galgagh townhand t—

Yet.

a 458. Then we come to Clouwves, and yet say that coly portion of that is flooded or injured i—Yes.

Well, I are exclusive toget the arrange of the whole to the contract of the

to Well, I can exacions to get the arrange of the whole of townload, to compare it with the least lists in Boodeal or or fagured.

Mr. Penus,—Clearwee contrins 1,807 series 1 typed to all 38 pecches.

439. Mr. George,—That is quite true, but this in-

439. Mr. Gerrego.—That is quite trees but that incitation a great quantity of deep turb log. no.—Mr. Barner (ie Mr. Penny).—Can you give us the of necessor Golgaph! will be the second of Cologaph! will Mr. Penny.—Calpagh in part down at 319 acresult that is the whole town-land—due toust area. but 440. Mr. Gerrego.—The 219 acres is the whole in the occusion of the treatment, as indured or flooried.

More to the same days are byg besides that, in the present of the same days are byg besides that, in the present of the same days are the

Me. Teler IL. Garvey acre, you think that is too much for this readered capable of being tilled t—Too much; very much too much.

444. Why, might I sak t—Because the quality of the soil to be introved it not unfidently good to

444. Why, might I sak!—Because the quality of the sed to be improved in not sufficiently good to render that benefit. 445. What does it preduce now!—It produces come grees and scope. 446. ApJ if it outly be tilled what would it than

produce !—If it could be tilled it would produce roots and even, of course.

447. And pointoes !—Yes, and pointoes.

448. And would not the course of moderne them

448. And would not the power of preducing them crops to worth more than he. Sci. per same t—I do not think so.

shado are in black bey year out "— Yes 400. In three or only in Pa.1—I monitored that there was subject shpould happed as long of the river. As the part of the part of the river of the part of a very constitution of upon it has demange a sidelist's when the foods are taken arey after a few that had reduced in very small and part. The size and who hald there long are too people whe could not be a subject to the part of parts of the part of the part of the part of the parts of the parts of parts of the parts of th

451. Then is the land that is injured astronted only t—It is not saturated, it is injured.
452. It is stated to be injured, what does that man !—I am resulting mow of the part that I know is deoled. There are wide open drains there, and these at certain times of the year become risk, and

in decided. There are wide open cleaning there, and those at certain times of the 'prace become tail, and when the river in full they cannot discharge, but the lead in not st all times returned. 458. Would it require sub-diminage or thorough drawings to reap the full beauth of the removal of the foods, or would the Injureal busin require delitional

445. And 5a 6d the estimated improved value per outley to get the full bond

entiley to get the full benefit i—That all depends on the full. If there is a good full given—— 454. But would it require thorough draining as access the whole benefit —Well I don't think is would sentifie very much thorough drainage. 456. And what does that in layered land generally produce new !—The injured land produces 774, postof 1864. All Well and 1864. The sent land produces 1864. But the 1864. The full and senses —Yea, where tilled.

467. Is there not a position of it under gross 1—00, yes, there is a period of it strays reader gross 428. Coarse gross 1—7es, coarse gross 429. Mr. Rauver, —Would you give us the read of the 1991 area in Charavee this is said to be either a fooded or higher descripting that all that is let to tensats 1—7es, all that is let to tensatis 1—7es, all that is let to tensatis. The west of Clearavee in £510.

600. The whole of Clomarce 1—The whole of Clomarce 4—The probable increase on the present actual value of the lands to be drained or improved pot down at £60 is 1—The

665. An year groupoul to any whether that is ever or under the strate are reviewed fact these hards— I cannot stry. I have not lad isosan to the maje been every fees, been, and that riches and under look directly the cannot be a feet of the width it not directly the cannot be a feet of the width it not damped. That is all I have to say. I have not used the damped of the say of the say of the conloring the say of the say of the say of the beats by Mr. Fluggrads to be no high!—The. 464. Cheally go on a pare tills of white you consider would be the real value of the Improvements, which would be the real value of the Improvements.

not wis to be changed in the projection is would be noy doing to set the part own't be, as I know that every opposition would be given to its born that every opposition would be given to its born the set of th

Mr. Robert Lucus, of Springfield, countred,
465, Mr. Rumax.—Gen you give us any informs. Leon will now show you exactly where his land gon,

465. Mr. Sturns.—One you give to any infreensists, Mr. Lonest A.-M. I all Substy to posts out any incorrected in this valuation schools! "Add Most estuding year are. Till us what they seed —You will find my mans down on page 45 or fistor for the contract of the contract

Springrical do they belong to you I—Yes, but Eallycon in his subscale represents more land than I hold. My lead thate is on a lell, and portion of it was into Mr. Bull's property, and this accents to be all included in and in the subscale. I don't think these is more than six on a service or eight some of inter-faced in Bullycon. These are only thirden arms of wine should not injured in that severalized.

468. Do you mean thirteen agree flooded and unured by floods I—Injured, so a certain extent. Some of it is much flooded, but m dry weather is in pretty fair.

469. Before you go on I should like to sak you whether any part of Ballyon belong to die. Ball'—Yes, a good period it—in has more of Railyon that I have I should say that I find them in not see much se threteen some of my bed in Ballyon theeled. I find them in the see much see that the see in the second of the see that the see in the second of the see that the see in the second see that the see in the second of the see that the see in the second of the see in the second see that the see in the second see that the see in the second see that the second second see that the second second second see that the second second

and the other part which is described belongs to Springriald. (Witness pointed out these lands on the maje).

Mr. Brows (to Mr. Pennsy)—You will have to point cost to Mr. Pittagereld this parties of this landless sait belong to Mr. Lanes but as Mr. Ball.

410. To Wittens—Rave yet on other objections to make of the property of the model o

difference, II, the the amount or in it to the rate per are for enhanced importanced that you object I—O₁, it will be ampound stellarly by distingt—a goal and of the body in the stellar in the street of the period of the body in the stellar in the street of the III of the street objects are street. The street of the that more land has been put down as your property than belongs to you—You, and not conting to that it

474. Sir Joens M'Exentre.—But take the hand by the aers, what would you say would be the value of the hippournesse.—I suppose you orid form as also b —Well, I could not sell what it would come to. 475. Well, I can tell you the assembly put on by the

whitstoe for the impreventation, irrespective of the proport value—the estimate for improvement of had actually feeded there is 56. 64, as over; now what do you shrink of that 1—Well, I dure may of it was a cure thing that it would be worth that. I don't think that

thing that it would be worth that. I don't think that that is over the mark.

476 There are fifty-nine acres in the townland of Ballylogh, and of that fire-acres are pat-down at Sa. on.

onted made digitised by the University of Southampton Library Digitisation Unit

acre improved value and fitty-four acres at Sa. 6d. anment value of Se. per sore-that as merely incured not

fooded-and that is the whole townland !- There are statute acres I suppose.
477. Yes. Do you consider that valuation would be \$77. Xes. Do you consume that variation would be fair both to the flooded lands and the injured lands?

curself with regard to the schedule !-- No, I don't Mr. Salest think I have anything else to say, 479. Have you say thing to say as to the general scheme of improvement of the dutariet of the proposed depend altogeties on what charge we have put on. If the charge is not too high it will be an improvement

480. Mr. BRURN,-Are you as occupar of had in 481. Where !- At Ballyburh. 482. How much land do you hold!—About 120 485. About how much of that land is flooded or

marred by water !- I would my about ten arres. sail 1-Oh, yes-the whole ten ocres 480. And what do you consider their present value,

486 That is their present value !- Yea, the rent 487. I am saking you their present value in their

fooded and injured state—as they now are—per acre? what addition to that value would you suter of altorether. Because if the land had yet monters it might interfers with the quantity of the werse off, because the natural grasses might decline for lack of necesture. The river edge is good-you will trul that there is better grass these than where the food flows off If the flood declines over the intel here we will not have the sort of gross to make good hay-the moisture is the only support for the

(8). Mr. Smrst.—If that land was prevented from drain it and break up the land and lay it down, would

490. But would not it be worth that I ... There would have to be a readway to that place if you proceed to think you could till it. Supposing you had to run usts pastone it might run day and would not produce sood parture. The natural grasses would dealine, but if you could secure that in a safe way by desirage trom certainty of the crops. It is an uncertain crop tow-the water cannot go down from it and the flood

491 But if this desirage is done it is the intention rany occur once in twenty years; that is the intention mod when they loose the montage, and then on the 492. Mr. HAMMED-It it your opinion that the

Mr. Gerrae Giller examined. mendow loads you have described are may value by being flooded in winter!- Yes. The flood brings out the moisture on the meadows and after a good food they will produce a heavier group

493. My BRUES .- Are these lands not flooded at runner 1—You sometimes 494. Does that improve the meadowing !-- Early remmer flooding does-flooring in April or May 495. Mr. Surm .- And don't you loose your havsuppliment by the floods !- Well, I did not have, year

496. Mr. Barren.-Could you give us any oridence with report to the flooding of lands as your neighbour

Mr. Penny.—The next witness is Mr. Ridgewice.

Arldson, July Sed, 1885 Siz.—I have received the Schedule of the Engree Drugger Courgingen together with the accessor of five-led

Determine Communication and the second of the communication of the self-second of the second Yours fulthfully,

Jone Bederman 497. Mr. Eidpercox-Since I wrote that letter

cannot attend-there is a mortales with record to her 498. Mr. Berren,-What is the name of the lady t

—Miss Serah Matibia Gatchell. I have her author-sty to give evidence on her behalf. You will see on page 5 of the valuation schedule she is just down as having in Darrymore, 148 acres, 2 roods and 20 perches of flooded and injured leads. As a matter of the map the portion owned by Miss Gatchell). 499. Do you live in Dublin !- No. I live in the

200. I think, Mr. Ridgeway, the operation you are eet through in this way - a tending of the posture of this map which refers to Miss Gatchell's property can be sent to you, and you can mark the part that as really here, and then return it to Mr. Penny!.... I shall Mr. Perny.-I think it would be well to soint out

these objections to Mr. Fitzeruald. Sir Jour M'Krause —It is properly his date of his attention is called to an error, to have it adjusted.

Mr. Baum.—Mr. Penny will please take Mr.

Mr. Fitzgerski, and have the thing set right. 591. Str. Jone M'Kerzan (to Witnes Witness)-Miss agree in that; I don't think she has so much, but I have no data to correct that he here 502. Well, let us exprose it is only 10 acres, and that the proposed farmaned value per acre would be ba .- do you think that the value of the benefit to be gravelly bottom, and will be considerably improved 503. Mr. Thomas Makard Marray -I appear for

the treateenof the Marquis of Downshire, and I will sake you to allow Mr. Ridgeway to make two corrections with regard to townlends with which he is committed. These are teornlands set down in the name of the Magazia of Downshire, and Mr. Ridgeway can show that they belong to other isodierds...Mr. Hume and Lord Scion. I empose it is a mere mistake in the

referred to on page 4 of the valuation schedule. There is Glongwort-now that townland which is there oot down as belonging to Lord Downshire, belongs to Mr. Arthur Hune, of 63 Dawson-street, Dablin, and not so the trustees of Lord Bownshire. You will find Mr. Hume's name mentioned in the cohodule at

505. Mr. Engrey ... To these any other correction !-Ob, yes, with regard to the towaland of Closcont, Downshire, whereas it belongs to Lord Setso. 506. Are there say other corrections1-No others.

507. Are you the agent for Mr. Humet-No; but I was formerly, and so was my father. 503. Are you agent to Lord Scion !- No; but I

500. It is entered here as having 39 acres flooded to _Yes.

510. And see the whole of these 39 acres flooded 5 511. Do you concur in the increased value put men them by reason of this drainage if carried out, think in this cur the prospective ingresse is rether ligh. It is a deep beggy lears, which will not un-powe as much as those flooded hasks which have gravel bottoms. Their value would be greatly in-512 According to your view, what would be the

-Well, I have not formed an origion about that. I have not experience enough of seeing these lands dramed to form an opinion; but I would my about 515 Sir Josep M'Krnain .-- What is the nature or

quality of the noil 1—Deep beg.

514. Is there no mixture of allevial matter 1—Not in this district of Clonosot-there is no alluvial deposit, 515. It is on the State river !-- No. it is on the

516. Mr. Sasses Walker, Solicitor-I appear on 517. Mr Bauro.-And what is the nature of the

chicotione you wish to make !-- My first objection is that there are 345 seres put down as flooded and regard on her peoperty, while that is 153 acres, 2 miles, and 39 persbes more than as actually the case. I have the magn here and the proofs, which I am 445a, 2a. 10e or monous and improve to our list as as as in your schoolse; but we can only molest out 191a. 3a. 21a., so that there is a difference of 152a. 2a. 3p. You will find all that here—in the paper. which I now hand in. (Document handed to Secretary We had an dishorste map made in the year 1837, and That is all pastere land.

518. Sir Joos M'Kenner.-Is all that (in map) Mrs. Gressia's property !-- Yes Well you our easily mark the boundaries on over map, at present 1-You. Since this map was major for us in 1837 there has been an embankment hallsit was constructed by the late Mr. Grendy-the entire way along the river factwo miles. 519. Does that protect the land from floods !-- Id

does efficiently, except from back water. 530. Then that would be a proper matter to express an opinion upon-with regard to the extent of the valuation which I see is put on the different fields. we don't object so much to that ; it is to the countity

521. Mr. Bauto.—That is the quantity of lead which is actually flooded !—You 522. And you say that so much to not injured !-Yes. Actually seem upland is included in the area. There is moster objection I wink to call atter.

ary-outside the boundary wall or down wall that he part of the whole. They are subject to floods, but very often we get two group off them in the year.

523. Mr. Hassan,-De you often loose the whole gross on those minude !-Oh, year 524. Mr. Surrry Wouldn't it he better if the floods were altogether taken away, so that you would not ever loose a cree !-- There is no dough about that, but from the lie of the river that the stream will be run

right through, so as to take away these islands altogotker. 525. Mr. Berus -That is a matter that can be casily ascertained !-- it is so--apparently. Sir Jone M'Krants.-Then that will be a matter for compensation afterwards. Any least taken for the purpose of sharpening the river and making the new cut will, as a matter of course, be paid for.

526. Mr. Brews.-I would be glad to know whether you have considered the question of the accessic inthe drainage in regard to Mrs. Gressin's property !-

and I don't object to that.

527 That is to ony the increased value which is expected to be derived in 200 7s. full !- That is purposing the arrange to be correct. 528. But you say the acreage could be reduced considerably; however the acreable value you don't object to \(\times X_0\), I don't—according to the different

valentions that have been put down 529. Sir Jone M'KRELLE.-The value put upon the let, Se per sere on saother. On flooded lead there is one lot at 4e nor nore, mother let at Se, and there is a

530 Then you don't think these seem are too much? Supposing the acrenges to be correct I don't object 531. Mr Burns.-Mr. Priagrand becomes nous

lands to being improved and to be improved, but you don't there will be so much of these lands !gents so I we save there work.

532. Magist I sak whether you approband it is
swing to the embackment which was formerly built,

the river !-- I think shere is a great portion of it where it would make no improvement. 533 The expense of the embankment-is that also Friagerald !-- Precisely, we don't get credit for the embankment. That embankment cost, I suppose, between £900 and £800. 534. Mr. Surva.--Ie that moony had !---We can raise buildedes on it even if there is a food, by having

\$35 Is it inymed lead at all then !-- No-cortainly 534. You think the emberkment improves it 1-

537, Mr. Hamann-Does the embenkment you speak of keep out the floods entirely i-It does.

550 Where is this land !- It is just on the straight steer. The heavinst fleed that ever was, was kept out by the embeddoons. On the occasion of the

540. Where is your place situated !- It is just a wile and a half from Bathangan. 541. Mr. George Gibson.—I spream upon page 6 of the valuation schedule for two piscos—Chryychose or

Mosmisne-where you set down the quantity at 182 542. Mr. Burns.-You consider that too large b-

There is not more than twenty Irish acres fooded there for the last forty years. That would be about thirty stotate occes. 548. Then you would transfer the balance of the

land stated to be flooded to that which is stated to be Sety perches of the river which is to be drained reas and can at the side as a boundary. There had been

two new givers were such deviating very much from 544. Do shey both so into the Barrow !- No-inte

545. Well then what do you may in the seen of the flooded and fujured lands i... The seen of the flooded

346. Then how many acres are injured 1-I could not my there are any injured at all fee want of drainage

But they are injured by water !- They ore is sued by water occasionally-by a little tunder water,

but they are never flooded.

548. Would they be relieved by lowering the bedy of the error !- It could be done without lowering the level at all We have drains eight or nine feet falling into the tellutaries that have been made.

549. And these lands are considerably higher than the main steer !- They are considerably higher than 550. Does the hard rise enddenly 1-Well, it rises

gradually but some of it very abreptly. What is your bles of the total flooded and njured hards that would be benefited by theorygic There is a fall of eight feet or perhaps more, but in some places along this lead which so injused there occusionally.

502. Then, as far as that goes, you think it would be a benefit !—Xee, but I could not estimate what the

our might be.

535 What is the nature of the flooded lands?—It is allowed seed with a nort of blue clay

on that meadow for the last twenty years, although assastizes perhaps, the key might be a limbs injured. 565. You me Mr. Pringered catignates the increased about 100 arms, but there are tenants occupying the rest of this property, and I suppose Mr. Pitagurald

556. I suppose no, but your evidence relates more to your own holding t-Oh, shaply to our own helding. There are two of the termina who held part of it

here, if you wish to put any quantities to them.

507. You are acquainted with the part of the property which is hald by the tenants-I suppose then

558. Well injured t-Perhaps at is injured by the water, but not by the water of the river peoposed to

age very well investy.

550. And they have been sunk, you say!-Yes,

the old track, which was rig-rig. The new track is out straight, and the new rivers have been sunk two or three feet lower than the old coon. Boods come they come down rapidly, and they flow away vapidly.

500, is there no back water at these newly sunk

561. May I sok the survage of your holding t-I occupy, myself, about 100 Irish seres-I am not muc

to tase property. The whole property centains 1,968 status neve, including the log.

562. See Jeers McKerner—All your observations up to the present have reference to Meanures only 1—Yes.

on 563. Mr. Baurer,-You spoke of the main river being only for forty purches adjoining your heads-

564. I suppose your trauxts' leads he along the river !- No, they are far away from it. The commences marrow at the viver and goes off widely

into the country, running away from both the road and one twee. I might some can a good olds of this hall described as rejured in land which has been reclaimed from the old state. There are a number of straight drawns as several places, from four to six feet deep, excluding fields of about severa some, which 50. Sir Jone M Kentre.—Then this is thoroughly decrared in fact, that is, that miner drains are put in

166. And are these drains working very well i-Very well. They have all a fine tall and work well by ottending to them amounty. There are some, however, in the tensors' compators and they are not 647. Could you mark on the map the extent to

which you my your basis are mysave or flooded !--518. Mr. Burns -- Have you get a map yourself 563. Well the maps here are on the sixelach scale

and you will observe the colours on there. in blue, and if you take the opportunity of looking at Penny those parts which you say are not injured and which should not be included in that coloured portion !-- Yes, and while I am daing so, perhaps you

*540. Mr. Burry.-How much land do you hold!--About 50 acres. *561. Does any part of that adjoin the main giver !

No, the main river is half a mile away. My land adjoint a small mill stream

*562. Does that flood year hand!-No, I have no *363. That is the spring water which comes from

Martock Counce executived.

*564. Has the land not a slope or fall $8\!-\!0k_{\rm s}\,{\rm yes}\,;$ a very good full.

*545. What is the name of the townland in which you my your farm is 1-Monround Mr. Baues -- Can you tell us, Mr. Penny, is Mrz. tugh Conner's helding included in the coloured portion

Mr. Penny......No, it is not included at all. Mr. Printy - No, it does not come into our sugarry.

Mr Galeron

Examination of Mr. Gilson resumed *566. Mr Batter.-Then the released portion, after

examination of the maps, you so, comprises your holding and none of the tenants' holdings's—What I *567 But is there may part of the coloured portion held by the tenants 1-Only bog end. There is only

Now, as regards Chevy Chase, I think the head land. iord coght to be put down for that the head land. Chrutopher Rynd. *168. But you are put down as the owner !—Yes.
*168. Ser Joses M'Kenne —How do you hald !—By a lease for ever, but Mr. Eyed goto 270 a year, head, out of that. 570. Mr. Barran -- You are put down as having there 301 acres flooded, and 35 acres injured? I hole

that the whole of the 201 nerse are flooded, but there lands-201 acces-on Chery Chess !- You, I think it is correct. There are about 150 frish arres, and there

579. Well, the resount of the improved value is put 573. Are these any other observations you wish to make !-No, only there is a small portion of the bog

Mr. Thomas Richard Murray executand

574. For whom do you appear?—For the trustees of the Marquis of Devrashire, on whose behalf I been all over this district, so far back as Sir Richard townland of Ethor is in two divisions. Mr. Marcing valued and surveyed all these lands to '63. There is no

575. Do you object to the arreage put down !- No. 576. Then what you o'gest to it the valuation put on the hands — Yea, to the valuation per on them.
577. As reports Eaker Most, do you object to the 475 11s 3s, being put down as their present value? that is what Mr. Manning valued it at 578. Then it is to the probable improved value of 250 14s 1d that you object !- Yes ; I think at is very

379. How much do you think that ought to be actuald to 1—I could searchy say, because it is all bog.

580. You are not prepared then to give us an idea of what the improved value would be 1.—The very hishest value that I could put on it would be about

581. Now we come to Raker More (Monasteropie) -do you object to the serrage there !- No. 182. Do you abject to the powerst value per on that - £42 16a, 2d. 1-No., what I object to is what has icon put down as the estimated improved value-field 7s 2st. Nearly half of that would be more likely

22b is set investigation to the countries are many what it would be 383. Then your evidence is very much the same regarding this townland as with respect to Eaker

534. We now come to Cashallu-is the acreage there right, according to your iden!-You, according 585. And what do you my as regards the present

58%. Then what do you think of the estimated incurated value !- It is very excessive, because you recoved value ought to be, in your view !-- I think the whole unproved value souls not be more than £20 a

588 Do you wish to call attention to any other

580 In forming your estimate of what the improved formed my opinion scoonling to the acres he improvetricts than Is ful per acre, because there is no gravel. Bir Jone M'Kuntz —Mr. Gibson, your objections regarding the extent of land charged in the achedule

inquiry will be necessary on the spea-Mr Offices -I world be very glad that there would be further inquiry, because I think that property is

Mr. Brown — Is there anybody she have who wishes

The Commission then adjourned tell Briday, 19th

FRIDAY, 10vn JULY, 1885.

The Commissioners held a sitting at the Court house, Mountmallick, Queen's County, pursuant to

public advertisoment. Propert:-The Right Hop. H. BRUEN, D.L., Vice-Chauman (presiding); Sir John M'KERLER,

Columni Carden, Mr. Hassard, C.E., Mr. Humpersey Smyr, and Mr. J. A. Cassidy Mr. PENKT, Secretary, was in attendance.

Mr. Butter.—In opining our proceedings to-day I wish to give notice that we saw here to receive from Burrow and its tributarnes, any information they wish to, or objections that may be made to the achedele of the fooded and injured lands and to the valuations showed which are not out in the schedule that has been circulated among the different pospeisters. If any guardennes here present workes to other any evidence or make any remarks we will now hear him. Mr. Penny. There has been one objection lodged by Sir Allen Walsh, which I will now read for you.

"Ballyblicarus, Struffaily, Joly 5th, 1×55
"Shy.—I desire to acknowledge recept of your letter dates
Sees 27th, with nacleourus relative to latel, we property, sur-

roply I have to state that I object to their being inelected in the list of lands supposed to be benefited, for the following reasons. In The backwater of the highest Barrow floor reasons, 1st. The backwater of the highest Barrow stood pickper up the Scotledly rises than Devy-book broken, which is mustly a such lower down the rime to be a such as the second of t hand of testing the con-emission the variances and surveys, but I am inclined to think they are incorrect in smart par-ticulus. I propose to attend the meeting at Mounteschok on Friday, the 10th instant, and to give oridence upon those matters. I am, six, pour obsolute sevenest, * ADDR WADE

"James S. Penny, Esq., "Sorreiney, Berrow Desirage Commission."

Six Allen Walsh examined.

510. Mr. BRUEN.-I suppose you are here, Sir Allen, to support these objections !-- Yes, my objections to my land being included, as not out in that paper. Nothing can be done to the leads at all, unless the that would affect only a very small portion of the lands—not above eight or ten acres. I have been looking at the maps. The greater portion of the lands or question have been drabach. The rest are meadows, and they are only flooked for aheri puriods. If the food lasts for ten or twelve hours, it does not run any longer, and it does not injure the leasts at all. I have also merked on the Ordinanes map here (produced) the various weins that are referred to. First, there is the arpsly weir, according there is a sleain of mine moint the river. This drawns the land at one side of the river into another duck which runs away quite property. There is a weer for the nell supply, and there is a lead welr as well. In fact the land which is affected by the supply weir for my mill is more drained, for it is under ouers, which are very valuable. At page 3 of the sobodnie I find I am first scheduled for certain lands on the townland of Knockphilip.

There are about two seres of that townland affected by wair No. 5 on the list—the weir marked E on the map. These two same are flooded during heavy floods. the water runs of it at once, The rest of the townlead of Knockphilip is either under plantation, or 591. As regards Knockpbilip, the first townlead upder your masse in the schedule as owner, do you

to the amount, but I object to the supposed improvecat. I say there would not be any improvement. I will take that as correct

50. I will take unit as correct 191. The protent arms of value of that land to be drained is put down at 47 5a, 6d,—als you object to that t—Well, I den't object to that.

504. Then comes the samual value that would be added to it, by way of improvement, if the works were carried out !-- Oh, I object to that in two. It would rather be a loss-a damage rather their an

556. You think the works of the drainage would be projudicial to you!--Would be projudicial to me. Part of those lands is rough ground, quite incepeble of being made arable or pasture land. It is maker trees, and the greater part of the rest is under essen; aged the head under cases I find to more valuable than any of the other hand I bure

proved became four or five acres of it are under

528. And m that ornamental water included in the 19a. 3a. 6o, mentioned in the schoolsle !-- I take it not marked on the mon-the whole is coloured altho--and the grunter part which is not under water in verday onions

under oners 519. The present value of that 12a, 3a, 0r, is set down at 27 12a 4d. Do you make any objection to that valuation 1.—Well, at m way low, considering the crop which is on it, that as much less than the animal 600. The improved value which would be added by

the proposed works is put down at £6 10s. 2st. Do you object to that !—I object to that iss rate. The works would be prejudently to this land instead of 601. In the townband of Mill Land 31a. 3a. is not down as the arms of your hand to be improved. Do you object to that area ! ... I do object to it, for the

and won't be improved at all. It has shready been framed.

602. The whole of 511. The whole of it. It is all

mendew hand which has should been drained; of course it is flooded occasionally, but that does it no appra-

Adv 20, 2016 Str Alben

60%. Do the drains at present work well !-- They 604. But the land is occasionally flooded 1-It is occasionally floored 635. Does that flooding arise from the river itself?

-From the river itself. 605. And do you not consider that that finding democra it 1... No, not us a mendaw. The water door not lie on it. As I have told you, the water never

607. Does the flooking ever chake the drains !-- No. down at \$17. Do you offer any objection to that \$ benefit at all by the proposed weeks.

600. The probable increase in value to be gained 610. There are three other townlands, Massferrick, to the present valuation of any of these 1-No. I

611 The improved values, in consequence of the proposed works, are not down at £9 18a 1d, £4 7a 9d, and £31 19a 7d, respectively. Do you make any objection to these figures !-- I make objection to the sown as unjured are all thorough desired and are really not affected by the foods of the river at all.

613. Well, what do you my as to Corradons !-- It is under meadow, and it is only liable to partial flood I make no objection to the area or to I should be benefited at all, or at least, beyond the most trating extent. I suppose, if I was benefited one shilling an agre it would be the highest that I would be benefited by the sinking of the river. 613. What observations have you to make with regard to the townland of Inch! -- I think that ten or tuelys agree of the lands of Inch would be materially benefited if the canal supply were removed, but no

otherwise.

614. Will you explain a little more charly what
you mean by saying "if the canal supely were removed?"—There is at the lowest point of my penpersy—at its junction with Mrs. Bellow's preperty—a were for turning water into the Grand Const -1 call that the Grand Chinal supply. The fall at that well is about 2 feet, or 2 feet 6 makes, and if that wen

were taken away, the land above it would be pilyout 615. Colonal CARDES .- But then you would take count, and that opens up another consideration you enamed do maythrug with the lower portion of the in fact, you cannot do sorthing with any part of 616. Sir Jons M'Kentin.-How long does the and sorter months, below the noint at which was were or two, perhaps twice the size of this court house ; but. as a rule. It never remains longer than twelve home. 617. In the wear for the supply of the Gennel Caral 85—16 16 while is cause a growned were 1—16 is always a drowned weir—there is always water going over it 618. Does the back-water go over it 1—In a high 619. Is there any dipth of water on the top of he at that time i ... Well, there is what you might call a sort of appreciable fall, about a few linkes, you can so 620. But that is only for a few house!--Only for

621. Mr. Barres,-I believe von have some observations to make with regard to this branch of the river these to make with report to that of all I wish to we are speaking about 1—You. First of all I wish to read for you the following statement of objections on the part of my father, William Young. The first The little little is receiving their capable in assuming their pose dissioned from 3 to 4 feet deep six various treas from 1600 to 1670—as the covered, expense. The cutful of this desirange is the old river which lefts rate the lake at Rollyklowen House and the level of

-That is what I have to say as regards Brookley Park. 622. Well, I will put a few quantions to you re-garding the figures in the schedule. Do I understand object to the 10a in 20r set down as the I consider the area is rather too high. exceptionally high floods there might be that, but our thirty acres under water for ten or twelve hours, but 635 These are the dramed leads you have taki us about !- They are drame i but what would cause there

624. The present value of that ffly arres to be drained is not down at £47 in 11d. Is there any obrootion to that figure !- No. 625. And the probable mercase in the value of the

Mr. John William Towns, examined.

hand by the improvement is set down at \$7 11s. ld. Do you object to that !- I object to that altorether It would rether injure the heaft to drain these 495. Then you consider the feeding a house to

the land - I contain it a benefit to it for it brangs down a certain amount of all which acts as too-G27. As regards the townland of German have you anything to any !— You (reading) :—

"All them lands have been dridged at different two 1969 to 1975 at the owner's cost. All the look for the purposes they now serve. Buches, no heter contill can be obtained that that shouly utilized union the casal napply were lowered soot the Steathally vivor such?

628. If the canal supply was lowered and the Strad-bally street was much there, would be a better confull -There would be a better outfull, but it would be no on a singlet portion of it on the siver, which is now known as Garrans bee. All the kirch land is drained and planted, and what is not planted in in winter. In the lower part of it the tast morald has been out down to the white mand, so that As it is, it is most useful to us as it grows a quantity of words and sodge which are of great value as bodding

much, but we have to keep back nome of the water in

contain parts of the year, say in a dry summer, when we got it more or less as a water secodow to make the 650. In Gurana the total area is not down as

63). And twenty across is put down so the quantity of land injured. Do you object to that area! —I do object to that, so I don't occasion the land mirrodatall by the water , on the contrary, it is rather 632 In fact you object to the assertion that the

say they are not sajered. y they are not captred.

683. And, as a matter of course you object to writers the £15 is. hd, the probable increase in the value, Tong it !- Yes, certainly ; for most that is placed upon it !- Yes, certainly; for distinctly any further drames would describe to Simulabily bounds of the river up to your portion would be of any bought at all i-it would be no 635. Colonel Canner - It would be injuried instead of benefited!-It would be intered instead of

area of eighty-five some are injured at all had do. I set at you

Mr. Thomas Kewwis, extranol. 636, Mr. Berray -- Have you, Mr. Konesia, and I would like to pert to the Communion. I wish to inquire futo, or in any way take cognisance of the

make recommendations on that head; but there is a power is given enabling the landlord to recover that proceed value from the tenant in improvement but the That is my reason for opening up the question. Allow me better illustrate my meaning. I happen to belong to a decinage district, and I happen to be the located anished and occupieded. The remarks on my cotale, who would be benefited as a body, all signed agreements, before the works were commenced at all, serveing to have the work carried cert somers from the Board of Works some down, and psy, and the charge the tenants who gained the screbts were to now. The tenants gained all the banefit, I stid not gain say. That was a court which cave a decision on these matters. But then, the Land The tenants applied, as they have a perfect eight to do and question related was in reference to this charge operating the drainings works-the charge held by the by the torants. But now, the Land Communiconers this dramage into consideration at all, but that the

senzous about. 638. Sir Jours M'Kennra.—Might I sale, is that a

639. But the drainage had been finished some years

549. Before the Land Commission held uts riting t Before the tenante applied to the Land Communica. 641. Mr. Burns-Have you say objections to

had the schedule before me, but an anable to say whother the figures are correct or not. I conclude they are correct, but I have no personal knowledge whether they are or not. With regard to the cand supply, which has been spoken of, I conclude the engineers have taken that into commismuon.

think a great deal of the flooding of this land-of the excess flooding—is due, in a large measure, to the overflow of the weir which supplies the cond, and rum at a high level through those lands. I suppose, the engineers have consumed that question closely-I conclude they have Knowing the leads purfoully well, I know that is the great difficulty to be dealt Nh. I have no further information to offir.
612. Your lands which are fleeded, so they lie

above the supply welr, or below !- They its below the 645. Then, I think the beeking of the water from the supply welr could not affect your land !- At present it flows over my land at various places, at brought before the Grand Jucy by the County Sur-My rumarica apoly principally to Eyne and Ballintaggers, which lands are further down than the others. the weir. The only part of my land really above the down so thirty-one screet flooded.

545. I should like to sak wer now, having the schodule in your hand, note questions regarding each of the townlands, to see whether you object to the fourer. The first townhand is Debioot, 28s. Oz. 20r., is the total area of the lands to be improved; that as the area put down of the flooded or injured lands, so have not made up my mind, for I have had this schedule only a short size before me. I could not against that, and the same recent applies generally 646. That is, you give the some answer as regards the others 1-Yes, the same enswer, for I have not

be an improvement to the Tragge Raver , unquestionably that is so, but I could not give you an answer as to whether the valuations are right or not. 648 Sir Jone M'Kristin-I think you mentioned

ing their appoly. 549. Then you think it may be owing to the defective state of the Carall—Yes, to its defective As I have told you the matter has been

brought before the Great Jury by the late County 650. Mr. Surve -- But it is above that surply The river delivers into the const topply at Luckin's

661. Sir Jamy M'Krenze,-Generally von um non value of the improvements which are pet down!-



and Mean

engarets.

My mawer is, that I have not looked into the matter, *651, Sir Ailon Walsh.—In consequence of what has fallen from Mr. Kennnis, I am daurous of supplement-

held mader judicial rente; therefore, that it would be unfair that I should pay a charge for my inoprove-

652. Ser James M'Kuman - An opensoo has been giv that where an award has been made, owing to innin improved in any dealings district, prior to the holding of the Lend Commission, the Lant Commission would take no corrience of the drainage at all-they would samply deal with the hands as they found those, but where the lands are improved by unbequent opera-

of the district L. I don't think they are of suffered 65%. But is there not a large ficed in winter, and a portion of the spanng?-No, not in our part of the

614 I om speaking generally of the whole dis-trict 5-- I have no deads it has some repreciable effect, but I have not sufficient admintific knowledge to say 655. You have not observed it !-No.

636. Mr. John Tennaced Treach, J.P. -- As to what Sir John M'Korbe has west said about putting in force the old powers of imposing an additional charge, under the Drassage Acts, for fature improvements, may I sak does use that throw on the leadlends a very uspensive process, along with a very practical difficulty, charge which has been put upon the landleed. Ser Jone M'Kssare - I am not aware that there is may expensive process. It may be done by agreement, and the senant failing to agree, there may be an appeal to the Board of Works, who will hold on Sagrary on

to pay. But I am not aware that there is any expengive process to be at all gone through 657. Me. Proud.-But does it up mover to be a great public injustice that the busiles of should be put as a buffig between the Government and the traunts, tenants the rate, for an proposessons, the heartists which he soon as the work in done, the tensuits will

Mr. Barrey, ... I don't think it is within our province 638. Mr. Frank.-May I then give some evidence with regard to some of the lands that belong to Lord Mr. Barres -I will call upon you immediately-Caland Cardon within to give some evidence with regard to the property which we have been just tolk

450. Mr. Barren -- I think you have got something to say to an about the property !- Oh! it as more a

question that I wish to pet than snything else. I am on the same river as Mr. Kummis, the Triogon, but I am shove the Gazal supply. The consequence is that the water is backed up by the high level of the Cazal—at is backed up over a great parties of three lands which are now flooded, and I want to know how that difficulty is to be not even Sir Jones M'Kunnen.-That is a question for the

Colonel Henry D. Corden, p.t., experiend Gelevel Gorden --- I know at it, but that it all I have

No Jones M'Kennig.-It is also for the valenter to state whether he has taken that matter unto oxunder ation. I don't think we can go mto it.

Mr. Brown.-It is right to my that this evidence and the questions which see put by the different to the engineer and valentur, who will have to give answers to us with regard to these deficulties.

Mr. J. Torresend Treach, examined.

3h J. Tewnor mentioned upon the first page !-- I cannot my whether 660. I wish to give evidence with regard to prosty belonging to Lord Leasdawne, Captain Costy. Lead Leastlywas -- Ballysoolin and Timegue, and Big bog belongs to Lord Castleton

their entirety belong to Lord Landowne !- Yes 662. That is an alteration in the tchedule which of course will be effected on the proper information being I think those me all in regard to the lands which belong to Lord Landsowne Now, with regard to the lenging to Captain Cooly, he desired me to stote that he helierus there would be no introvventin by the proposed drsinege to his lands whatsover 665 Colonel Campus. - Do you moun on all of these

townkeds mentioned -Yes.

664. Mr. Battun.-You appear here on behalf of Captain Code 1-You and for Lord Landowne and for Mrs. Adula. any benefit to Orehard Lower-the first towalsod

Do you question the figures put down in the solvedule !-- I affer no epimon on three. 647. That is no regards the are improved !- Yes 668. Who is the owner !- Captain Cody 569. Have you my observations to offer with

regard to Lord Landowne's other property—you will see it mentioned on page 21—I have some observations to make with regard to Cloudoclagh: These would be a beast's there to the farmer, but if you kentels the farmer you will destery the millen. There as a man starve the mul; so that is a metter to be considered. 670 Certainiy.-We next come to Ballinteskin't-To Ballinteskin the diminage would be no benefit winnever - st as high and dry above the river.

671. Osbond Cannus .-- That river has been already such there, hazz't it !- Yes i somewhat,

beyond the reach of the water.

certainly the greater part of the townland in entirely 673. Mr. Bioux.—Speaking generally of the district, do you think the dustrage of the Eurove would be a heastful—I think, speaking generally, that it peobably would be a benefit, but I think we must. 665. May I sak you, do you think there would be

hour thus in mind, that while the hard would derive beacht by being dived, it will low the benefit of hong flooded. There is a great deal of the land containly flooded by the Ntle Were is not for the Nile. Egypt world be a deart. In the same way, deduce that the land has been roused by having the

land. With regard to the amount of benefit I think knedit to the kandlords whatever, I thank it a denied hardelep on the landlords that they should be made use of as a beffee. I think it a hardship also on which they have to pay in the first mateure, should be thrown upon them. I think also it is a very great hardship to throw on the landings the others. of collecting this tax from the tomats, whereas the temats slone get any benefit from it. If there is a learner, the persons benefited englet to pay direct to the Government, and the landleres ought not to be they may never be able to collect. Moreover, they have got such a lesson with regard to the money spent for drainage, the fratalments of which they must pay 674. Colonel Canony.—The present annual value

correct !- Probably. 475 Mr. Barger.—Then it is proposed to increase out Fresh Besides, over since the people of to enferce st. Linerick proved that on order tax council be enforced, it is doubly wrong to put on this tax and set the

of those two townlands in put down at \$870, is that Aut to ter-

676 Mr. Sarys -These lands are ficoded for some menths, you say , dee't you think they would be worth a great deal more than they are in their present state carminal if they were not, my impression is that they enght, but I don't offer any definite opinion as to the extent of improvement. From an agricultural point of view I don't know enough to my what it would be in that locality, would not the intered lands-terral not the floode's heads but merely injured be improved in value as well b-They might; I offer no distinct primary on this subject. But I is not think the value of that had would be mercased to saything like the amount that has been put down hore; and besides the

would do the same here. 678. Colonel Canner, ... In Forrest Lower bow long and the additional value by manorement through dractage at \$70 most; that appears to be very large ! 680. Mr. Datum. - Have you snything more to said?

681. Could you give us the names of any of the guatheren here who know the lands or Mrs. Adstro in court-I believe they are the only tenants on

Mr. Andrea Molees examined.

482 Mr. Bautes - Are you acquainted with Mrs.

683 Have you men these flooded very often i -Xes.

686. Are they longuader water 1—05, yes, they see in a wet season—all the londs of Lower Forest and the lower part of Greigue are. They continued

686 Do you believe the sunking of the river would 687. You are acquainted with Forcet Lower !-

688. How much an nore would the least there be unproved in value by the sinking of the rives, do you

a good deal. Lower Forest, I think would be worth 487, Mr. Surrat.—That is the Irish sorn !—Oh ! 690. Mr. Bauer.—Is that beyond the present value

value-off they got a crop off it this year I would say

erop. Leaving out this year and last, the land was crarte nucleus for five or sax years nite meases for five of aix years 491. You held some land yourselft—Yes 492. When do you lays b—At Grairme and the river

Burrow rant along the meaning of Grange and Forest Leave, the river runs through my farm,

floods 1-Oh / Fee. 684. I suppose you would be content, if the floods

695. What is the sets of your fam !-- Seventy-five seres, and I have another farm shove called Inagh.

606. In that flooded too i—Yes, it is all flooded to

held in Graigue flooded 697. In a year like this do you get much meadow off it 1-I do, the gram is protty good, but then if a fleed comes if is no use. The year before but I got

nothing at all off it of the fleeds, do you think that would spoil your meadow!—I think if you made the land too dry we

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could break it and got a crop off it for years. 693. Colonel Canton -If the river was sunk four fret doep, would that be outlietent, below your land? -It would We drained it cornelves twenty reacts The bed of the giver at the time was level with the hand, almost to about a foot, and the river got closed up. We made up a subscription and laisi out two or three handred pounds upon it from Portse-Hagton. Now the river is five fact under the land, with the exception of the fords across at and the old

bridges. We opened it stad widened at, and it seek itself, but now it is stilling and chaing up again. Mr Townsend Trench.-Might I sak him doesn't fair as between man and man 700. Mr Baume.-I think these are contrary questions which we should not enter upon To Blic.

Mr. Gerra: Brams examined.

701. Mr. Baues.—Do you know these kinds of Postsablee) belonging to Mrs. Adapt 1—I do. 702. You are a tenant of her'st-Yes, in Lower

Forms. 703. And your land is greatly subject to floods, so the last witness described!—Indeed it is. I have have got nothing off it for five or six years until last I hope to get something off it this year too, if

a flood does not come. 704. Is that all meadow hard?-Part of it mendow and must promine. 705. I suppose if the viver were made you as

with the least witness that you would may a good sied of benefit from it?-Oh, yes, for the land is worth nothing at all now. 706. I suppose you would qualify that, as regards the present year it is worth something !—Yes, but we could not be sure of it till to-morrow morning. One

night's rain is enough to food it. 707. And last your was a good your, wasn't it !--708. So the land is worth something if it is day !--

Yes, but it is periahed on account of the flood being on it for eight mouths. When it remains on it all slong into the spring the had is no use, it as cold and pertained.
TOO, Mr. Canney.—In the quality of the green good?-It is not half so good as it used to be.

floods !- Yes, on account of the floods remaining on 721. Are you afreid of your land being made too

712. If these works were corried out and the river was senk, would you be inclined to pay an merous-d rant i-I would if it was done properly, though, of course, I am paying a cent for it now, and it has

713. The last witness told us to td. the statete sere would not be over much to pay in addition for agree to that if it would not be worth more

your land was dried, I emprose you would think 4s. 4d. 715. What I want to know is, do you think the

land would be worth 40 4d an acre more after it was desired than before it was drained b-I think no-I Mr. Tremand Treach.-In 4s, 4st, per agre the

entire estenated cost? Mr. Bruxs .- No, the estimated aided value, is 710. Mr. Berray, -And that is on account of the Mr. Betwee,-And ku't Raheensniska Lord Laro

> 730 Mr. Transcend Transh.-No, he has no town land of that neme.

Mr Barres.-Do you happen to know to whom the next townland belongs—the townland next to Novema, which is this develop Rahornanisks.

721. Mr. Townsend French -(After looking at the

rasp.)-Oh, no; that is not Lord Landowne's Mov-

722 Mr. Franks.—It must be Lord Landlowne's coperty that is referred to here in the sakednic, Lord Laundowne's at all Lord Laundowne has ontehter Movans; and Babornaniska is not Lord

Mr Maria Mr. Mankes H. Franks, exemined. 716. I am arent to Lord Castletown, and I wish to

call attention to avone mattern connected with his sweetly, accellenced in the schedule. Now, first with regard to the lands of Fig Bog. That is put down so belonging to Captain Cosby, These are the lands on the Ordennee map 14. Lord Confetown has a townland of that name, but it in on Ordname use 18, and these lands are not laterfered with m the least by the river. I don't know to whem the lands referred to in the eshedic as Rehesandshi-(rage 2) shoung lest they do not belong to Lord Carlistown. Probably they belong to Mr. Marwell

717. Mr. Baras. - Are there two towalsads of the town has no property upon that sheet.

718. Then there is a townload called Moyers -- is that Lord Costletown's 1-No; I think that belongs Mr. BRUDE.-Perkaps Mr. Trench can tell us Donn't Mayana belong to Lord Lennkowne t 710 Mr. Toursered Trenck.—Yes. town

734. Mr. Provide-The Rabernanisks on Lord Mi. Bauen.-We will take down your credence. this particular townships of Raheensnisks, taking a

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725. Proceed with year avidence i-Now, with regard to Bar Bog, it is married No. 1, so the flooded landsgo, for a long term, and I consider the treast shreld in charged the increase. That refers to the greater portion of No 1. There is a very small bit entitle is. 130 What as the length of Mr. Edge's lense 1—As

well as I comember it is sixty or sixty-five years. I n send you the date of the loans \$27. Will you send that information to the secretary lease—a lease a great many years in existence—to the supresentatives of Builds representatives or musics our. From to be charged representative, and I think he eight to be charged with the increased value. We have no benefit or can

What is Mr. Fisher's tenure !- There is one life m the lease still existing 759. I don't think that would constitute him a prometer !- Mr. Turpus's unde is really the reper- Ady so, resultance of the lands, but I think Mr. Fisher is the we Ment notical occupant. I find the inspeased value of the H Frenks. kend to be from to to Se, per stabule sere. I consider that a very extreme value, indeed, to put upon these

730. Which lazds !-Borthagus, Killavally, soil So, per statute acre upon them. I object to that increased value being pas upon them; and, further, I wish to say that I think this tax ought not to be laying mon the landlord. The landlord will derive no benefit from the improvement of these lands, the

but, in my opinion, not to the value per now put 731. Have you say objection to make to the succoff the improved lands t. No. I think that is fairly

Mr. Arthur Barns, exemined.

739. Mr. Baum. - Where do you live !- Cloatest Do you wish to give any evidence on the general quarties, or se to the particulars in the schodule i-I Received to the property of Mr. Backerd Warburdon, or without pulled the property of Mr. Backerd Warburdon, or without my father holds the place from Mrs. My father holds it is, for from Mrs. Warburdon, and I san tenant to my father.

733. What do you mean by saying your father holds it in see-do you mean waster a fee farm grant?-734. Is that a grant of old standing !-- It is; it was

node by the fether of Mr. Adea.

738. What is your father's Christian name!—
Bichard Byrne, of Grague, ternant to Mr. Adais, of

736. Mr. Sorra ... What is the date of the original hum I—I could not con.

737. Mr Brouse.—Have you any ovidence to give
with regard to that properly f.—Yes. The farm that
I have, I have been living on for about twelve yours. Shortly after I got it, the improvement which Mr. drams were all in good running order at that turn. I live just where the Triegue runs into the Berrow. Since then the Berrow has again become full, and the Traces also The consequence is, that the Tracese has now become practically no river at all. It is filled up to the banks, except here and there, and it is to left in such a marrhy state that the grass has gone

738. In the whole of your land injured !- No; I 739. How much is that : I see the flooded part is

put down here at 128 statute acres !-Well, I would my that that is pretty nearly right-may about seventy or eighty Irish store.

750. And the injured land is put down at twenty-

74). That is about right, too !-- I think that is fall.
742. And the ingreased value, if the desinage is

value would be increased by thet, if not more; I would may more, for the land which is of no value whatever now would be the best land on that farm if which would make excellent tillage 743. Do you compy the whole of that land yourself!

744. What do you consider would be the result of pools of water in the district that council sickness there I beard that frequently, and I have known young people—a lot of young people round this very district —who died very young, and who were healthy man that you would have thought would have lived for a long time. I wish to add that in that district there

all through the statuter, except it is a very dry sim-mer, when they may be dired up by the sun.

745. And you believe these pools must exceed a bed influence on the health of the puople 1—I am of 746. Sur Jours M'KERLUE.—Is you neighbourhood subject to four and maint—In is, in the summer

evenings and incrulage, very much, you could not see 747. Do those fags or mists extend for any distance beyond the flooded lands !-- I don't think they do.

Mr. George Bryan, recelled and exemined.

748. Mr. Brown - I believe you wish to semplement your evidence with regard to the state of health of your flendly!—You, my evidence upon that point is the same as Mr. Byrne's. I lost two of my chaldren, the same as Mr. Byrnes. I ten two or my comme, and I was told it was on account of the unwhelsenne-ness of the place. Dr. O'Nell, of this town, told no-it was on account of the unwhelsennesses of the to spoly to the county for that purpose, but there was

to go.
169. Thus is, these was no means of decising your yard !- That is so. Of a wet norming I would have to get a showd and teem the water out. There would presettings be a foot of water under the cattle. I have constantly to teen the water out in the winter, but it has no place to go.
750 Mr. Hanasto,-And in the nummer does it

no me in getting it opened, for the water had no place. Styre

dryn up in the min.
751. Do you may that in the cattle shed you have it burrows up make the cuttle, and I have been obliged

remain in stormant wools !-- It werning there until it

Mr. Anthony Pios, examined,

752. Mr. Barus, ... I believe you can give us some mis to refer to the portial drainum of the river some time are, albeful to by Mr. Andrew Malone. That the Onass. By having the Barrow drained, the flood

hood of the Ferraley !- There are a transfer of heeses steps and people have to cross in asser' carts to get into them.

750. Mr. Bauer.—That is to say the stevets me fleeded !—Yeu; all fleeded. I myself for two winters was not able to go home without getting a home and 760. Mr. Surrot.—Hon't it the fact that at cont

frequently to get a shovel and teen it out; and this

occurs at a place that is a nofe from the Burrow river.

I though if the Burrow wave drained all that water would be taken away.

Organ, they most in the form of a V. 755. Who is the owner of the property that you bold !- Lord Drogheds. It is close to Mr. Adair's property—sta fact there are three properties madely 754. What is the name of the townload I - Time 756. Is that frequently fleeded !-- I think nearly every year. A subscription has to be made up every That occurred every year except last year, 197. Mr. Surra.—About how many houses at

to whom Gooree Bream horn, they have reased a feet. path one fact in height, so that the people can get into Portselington with dry fret. floods occur, and the people am turned out of they houses 1—Decidelly so. Where the businesses 762. That is, the inhabstants of these houses you 763. Or does your observation apply to the inhabtante of the town generally !-- I think it is a health-

764. Do you think the town would be benefited by

758. Well, at the other end of the town how many are usually flooded-I am reforming to the neighbour-

Mr. William Gof Piet, examined, 765. Mr. Bauer,....Where do you reside 1 ... I have 169. Supposing that the Triogue was rank, and that a form alongside of Ms. Byrne, and there are forty the floods by that means were taken off the lands, seres of that form that I don't see for six months. In what benefit, per acre, do you suppose it would be!— Oh! I think it would be very fine grazing lead. 1853 a committee was formed and portion of the stiffings, per sere, that would arise by that !- I think 171. The improvement is it 1--You, the hand 772. Do you see much of that country covered with fog in the winter !-- You, you could not see to the end 773. And busiles the flooded land, is there say

766. What townland is that on !- Kidracush. It is on Mr. Warburten's property, and it adjains Clouberry, 167. What is the extent of year holding !-About 100 Insb acres. which is injured by water-on your holding, you 188 And of that you my about forty acres see floorisi -Yen, the Triogue rens night through my

Mr. George Shannon, communed.

774. Mr. Bauger.-Have you any information to give us, Mr. Sharmont-Yes, I am agent toe Treatty College, whose lands you will find monitored at page 9 on the schedule. The Rarrow flows through the the townloads are Cappabeg, Cappanerry, Monayquid, and Quarrymoust. 775. Do you agree with the firmer not down to the

-No. 177. The present value is pet down at £167 10s. 2d give an opinion as to that, 778. And the improved value in tret down at £87 6s, 6d 1-I think the lands would be improved that the Barrow were derived, it would improve the lands 779 Is there much meadow ground upon these

tennuts, but Monsyorid is meadowed whenever they are get a rop off it. They have not get a crap off it for a good while. The bettom of the river, new is nearly higher than the land—the river is almost

780. Do you live in this acighbourhood !- Yes, in this town.

SEC. Do you think it would be a great benefit to the little benefited by the proposed draining. The land is were as you dutiest generally to have the rives dramed and the Ands tomoved !-- I think it maloubtedly would be a 183 In regard to Trinsty College lands, is it your

there are no temants of Trimty College who would object to my 784. The mercoved value, according to the schedule. weeld account to about three skillings a statute acre;

if the lands were permanently improved, to pay three 785. Are you oware of this town being flooded occurrently !- Yes, I have seen it flooded, and have been down through the floods. I have seen a very great fixed in Manor-street, and last year some heuses fell. from the fixed. Of course, the poor people have to

lowe their houses when the flood comes; besides the 786. Colonel Carness -And, of course, that is inturious to the bealth of the town!-Yes, up at Irishtown, and there by Long Barn is is ficoded. The tennets have been compliming that the water comes us to the foor constitues. Of course that must be very injurious to the knalth of the inhabitants. There is no full from the Long Bean into the river, hardly at

sor time, and of course if the river was drained it 787. Mr. Bacus.—The gardens and town parks of course are flooled also, and they would be very such improved by the taking of the water off thor -Of course they would. Any heads are benefited by

—Of course they would. Any leads are benefited by taking the water off them. Might I call your atten-tion to page 6—the property put down as belonging to John G. and Arthur Morre, in the townleads of

188 Ms Smrn,-You are agent for the Meson. Moore !- Yes. I think their property would be very

pretty high andhasa good fall at persent for the water.

190 Mr. Buyers.— Is there a small strong remaining Strange.

Colonel Campus -That is the Triogra-791. Mr. Brury ... Are those townloads wet-do-

are they full of openion, rushy!-There are some THE Colored Country, ... But this property, Laurepone,

worse the cut-way part of the bor at Clourcher !-Yes, it must be-she prescut value in put down at

783. There is a stream which runs from that into the Tringue !- That is a drain. 724. It is con-eway bog, low roshy ground 1-Yes, int part no sount in. 790. Mr. Burnes.—Why do you say that that would

by drainage, but I don't think the Barrow drainage would benefit it, to the extent at least of £77 fix, 10d ,

196. Sir Jone M'Kenne Coold was ashalesin it

197. Could you make four feet drains in it 1-1 think so. There is a good fall at present.
795. Mr. Hamann.—Could you say what fall i—

TOP Mr. Surma.—Could you sink three feet or feet that would take water from these fu... There is, 800. Mr. Hamann.-If you sink four feet drains would you must with water !- I could not tell : I

done by the Board of Works. At present there is a drainage charge on parts of Churchen.

301. Colonel Cantern.—But that was for the pur pose of draming the bog !- There is a dramage charge

SEC. There was a drain made by the Board of Weeks to enable the tenunts to cut turft-There

Mr. Josephon Lattrell, exparints.

this part of the country !-- Yes I can Barony Coas 905, Mr. Brews,--Have you any information to they are continually flooded. They are townparks belonging to Lord Drogheda close to this town, and as I say they are flooded continually, cometimes for eight and nine months. They are without the township,

but about one wile from the Square-that is they are in the sevapueles but outside the township. 804. Would that lead be very reach benefited by the sinking of the river i—It would. It is called

800. Is it good land only that it is flooded 1—No.
it is all sovered with rushes now, but it would be road

996. And I renpese it would affect to pay an in it would. If the Burrow were desired it would affect

a good increase.

307. Can you give any idea of how much the un-provement would be worth!—I are sure it would be worth from 8s. to 10s, on Irish nove. It is worth nothing in its present state.

806. I believe you held an official appointment in

809. And you have recourse to different parts or 810. And are well accusinted with the district

811. Generally speaking, do you believe the benefit which I am contain would be very much improved: it also belongs to Lord Drogheds-a man asgned Holehan bolds it. It is worth nothing as it is.

S12. From your intercourse with the tenants of those deeded lands, are you of opinion that they would be willing to pay note if their lands were relieved from the floods 1-4 am one of it. Then see too or twelve tements around me who would pay for they can get ustlang off them now; pechans for

\$13. Where do you live-in the town !-- Yes.

814. Mr. Battan,-The Burrow Desirage Comthe William mission would be agained to get some evidence from you with regard to the health of the district, and the influence which the proposed drainage would be likely to effect on the boolth of the district. pennary moderal officer !--Of this district, I am

815. Could you tell us whether you have found cases in which the flooded lands have affected the health of the inhabitants i-Within my own personal times are rendered unit for habitation, in sonsormance

816. Do you speak of the whole district!-No; a position only. I know of several instances in which the houses are at times readered until for habitation,

health of the district generally, and perticularly in those portions none which the dooded isade are, is affected by the flooding.

817. I believe parts of the town here see flooded occasionally i-At times. Semetime ago whole fam-Hiss had to leave their bouses in a street here, in consequence of the floods; and some time ago we had distribution in the district, which I feel certain was due to the flooded condition of the bank about

818. Have you observed that the dastrict is much subject to fogs-about the fleeded banks i-Yes. \$19. Sir Jone M'Knazas - Have you a general browledge of the district !- Yes, that is of my own

dispensary district. \$20 How for floer it extend—as far as Portor-

lington !- No, that is the short side of my district

Dr. William Neals, examined.

821. Is it your spinion that the health of the district is inpuriously affected or not by these finels t -Parts of it 823. By the malarious vapours !-- I have no doubt

that parts of it are -those portions which are may the 823. In it your opinion that by distribut these leads and removing them from the liability of Scoting that

Would that observation apply to the town 825. Colonel Cassers.—The drainage of the town. rappose, is affected by not having a good fall to

Cortsfuly, and the return water from the river not being able to get away. 826. Str John M.Kennin.—The town cannot be officteally drained in its present state !-- No 827. And is subject to backwater, and the sewage

is thrown back into the drains! Occidently when there is high water on the Barrow. 828. In there may parterniar tame of the year when

you observe the injurious effects to be more providing than others - Early in the spring of last year l than others!—Early in the spring or in the noticed it more particularly, and later on in the scason I noticed that there was some typhoid fover the bad desirage. The water at tensor was very bigb and the flooding great. 829. And you observed the misrates effects as mounts health at the season when the waters become

The Commission adjourned to Friday, the 17th inst.,

FRIDAY, JULY 1778, 1885. The Commission met at the Courthouse, Persarbugton,

Present :- The Right Hon Lorn Castligrows (presiding); the Right Hon Hexer Bruss, D.L., Sir JOHN M'KERLIE, Colonel CARDES, D.L., Mr. HUMPWREY SMITH, and Mr. J. A. CASSIDY.

Mr. PEXXY, Secretary, was in attendance.

Lord Compressor,-I dealure the Commission appointed by His Excellency the Lord Larstonsot to monice into the draining of the Borrow and its talke-

Mr. Algeries Hercey, agent to the Marqueen of Drogheds, examined. 830. Lord Cappungows -Mr. Harvey, do you wish to make any statement, if so, you will please first give us your general observations, and subsequently the rounted owner of Mill Farm; it should be the Marquan of Drogbeits—a man named John Byrns bolds a team for forty years from 1873. As reports a anostica which I have som raised before the Commission in other places with reference to the chargeability of the proposed rate, I wish to say that I regard hositation in saying that the corapter should be rated, for it lies cuttrely in the power of the comper to take unfair to make the landlerd liable, and to make him Speaking generally, I think the corepart is the person

taries, open here to-day, and we are preserted to receive

Now, with reference to the Bathangan desirage, I hope the Commissioners will use there way to wome mend that that district should be made contributory 881. But the Ruthaugen drainage has been done !-carried out the Rothengua desirage, and these persons districts were included in the sakene it would remove say cause for complaint, and weald step the damage which is being done. It would put an end to the difficulty, otherwise, I are afraid, the actions will go on. 832. These setions are pending at present then 1—I that the actual steps have been yet taken, but a good

many men about me state that they intend to take actions. And I think that the Kildam distract should 833. You say the Kildson drainson district also !-Yes. Both these schemes were opposed by Lord the insuffeed might be rated according to his interest.

Imagine is the "final they were present, but they concerned in the pile of line. Now with regions of a contrast of the pile of line. Now with regions of the pile of line of

ar being concensory and duning starts design as on the artists. Associated with the second form of the second form of the second form of the second form of the second form and the second form of the seco

heard. I have anything more is early.

Silk, You have thosed over the artimotions and the
sense in the selectifie of the lands supposed to be
sense in the selectifie of the lands supposed to be
selected and suggested—berry upon any officion to readout
from the selection of the selection of the lands of

Soot I will not installing to the this points of the wires, I am reforming to the valuation adoptable. On page 6 you will see the Marquess of Dropbods put down for logical, Co. Kildaws, and the norea of the hearts flooded its given as 33 arros, and the lunds tripined at 711 acres, and the stead at 304. Have you looked into those figures 1—Yes. 336. And do you say the stead is correct—the total

Office And A price may not study a covered the study of the brain absolute on the brain and ordered to the brain absolute to the bra

of down much quicker from they mad to, and they stay to up as letter. Now we give clear no notability for these of administry by these proposed weaks 4 SSS. But they have been relevely associated and clear and the state of the

pay a certain sure. \$20. Supposing they are not included, recall it be your opinion that show actions which may possibly be postains, would very likely be give on with—it is impossible, of course, for one say that. \$40. But have you any resease think sloy will be — Well, of course, if this straings it courted out

801. Yes is well of system, minimize the dramage to a goal orders, but then supposing the desirage in not sourced out.—On, if the dramage is not sourced out.—On, if the dramage is not outred out.—Size You say there are some loops included in this solution of the P. You may there are some loops included in this solution of the P. Pringersold*—All those I have none and yet boys necessary, the desiration and Chronybeg (while is protectedly out, and Longhabor.

(which is practically one), and Loughaber. \$15. Who is this area of these logs 1—300 stakete area say included in the valuation—Cochasteers log is not included. It is 164 area. I don't know why if is not included. 815. And you say easy a small portion of these logs will be benefield—Only two—Loughaber will

014. Aski you say easy a moall portion of those begs will be benefited 1—019 two—Langhaber will be benefited 1—019 two—Langhaber will be benefited, and about sixty array of Bogharhawn 1 845. On what basis in you extinate those improvements to the bogs, or why do you my they cannot be improved—Becouse they or ent down to abe gravel, and you cannot go laws.

846 Colleged Austrace—Do you constitute the dutie.

oge there is already sufficient t—It is already sufficient.

In four't think they can be set down may farther. I

think the change made upon those who take the began

is at present as high as is possibly could be.

847. What is the probable increase in the value pent

in down in the sphedule —I taink the white put

archives of here. The wheater is not down to an

archive of here. The wheater is not down to.

ed unificative of logs. The whatefice is got down in one of hing digin or without having the logs particularized.

If the control of the cont

gives in obtail, have you compared them I—No, I is have not all of his abstraction and Khilare distinged districts ought to be made contributed barbay to the expense because of the great flood of water

Oil. 38% And that I am outful were given for the when when the would be a benefit to them, but nearly the ord goving of an outful would also be a benefit to the which is which it defects, weight is 61.—Clearly, but I like the it as action for derauge loss, and, therefore, and in the property of the control of the desired with the control of the control of the said outful is a supply to pay consulting for getting an outful which age will save them fore by the outful which age will save them fore by the outful which age will save them fore by the outful which age will save them fore by the outful which age will save them fore by the outful which age will save them fore by the outful which age will save them fore by the outful which age will save them fore by the outful which age will save them fore by the outful.

ay. SST Bits is it contangent on their success in establishment of listing any such action for injury that these lishfling in. to be ententiately would be secretained to Well, it is not to the any shoulder those actions will go on. I could not left saverer that question.
as 84. As a notice of fact bare them districts through

No. Alpenos. Mr. Alpenos. Hieropy

sure the Bulbacqua drakapp inn. The Kölder works were such teller I lime with basile, but I will give you must figures which will show you have the case stated. Tare it in one townhood could Pullight beauties which the rives from 118 statutes series of members in Level Deepshafe was task. From 1840 to 1876 inshrives three lands averaged £116r lide pair lide serv-555. You seem the precises 1—The prosince. We

and the possible at 100 or 1887 to 1884 they only overner the eight years from 1877 to 1884 they only overner 12 le 16 per arre, or less than half, 1876 was the 1865 of the Kuldure district theilenge, and in 1876 the first change was made in regard to 11. 856. Then you attribute the decrease in the profeste the torought freely need from her that the profeste the torought freely need from her the Kuldur

first abuge was made to regard to it.

856. Then you attribute the decrease in the produce
to the first-neared feeds sent down by the Kildson
District Dranning 5—Yes,
857. As to this pow cuts proposed through Moore
Abber Demona, there is one out, yes tor, wheth Leet

Abbey Demone, there is our est, you say, which Lord Deophels does not wish to be used t—Yes. 838. But he will agree to the other t—Yes. 859. Which is the longer!—I should think the one

he agree to te the larger—that is the out from the addition of the them right through the field behind what is called the Digono Island. 800 In there any cantinering difficulty with regard to the sherer set which Island people she objects to it.

I talk for. It is marger into a single face to the position of the long with of more specified or the long with of more specified over you referring to cut out long t—No, but to torkery.

843, Serviy should all the loop that are objitizing the feeded hands would be benefited, even the turbusy would be benefited by talking forms the turbusy would be benefited by talking forms the

See, Seedy ahout all the bop that one objitting the feeded hands would be bestelded, over the base feeded that would be bestelded, where the seed of t

attribute trace percey, as an event, or the macrostal bear of

472. Led Outranten.—Here you unfraued and olded \$\text{\text{M}}\$ of the object \$\text{\text{M

alde dutence from the river, is injured without being

minfall we have led since 1876 3—Clearly that has had scandiling to do with 8 854. That, of course, would help the food a good deall—Yes, of course, whe minfall could not get away in the store way as it used. The greater the minfall the greater the difficulty.

the greater the difficulty.

St 6. Leef Characrown.—The 1,518 areas which are assessed as bog, do yet really think that that persteadly is cut down to the great of the person, tenescalt—In meant places. They tell mo they cannot policyer.

St 6. Have you done anything in regard to beg

dustings promited — Yes, alcost flow or five years age. I classical study at lates they are will at reads! I classical across these began are will at reads! I classical across the study at the study at lates and a study at lates and at lates and

survey by armings.

Set Sir Jone M'Emilia.— Not even to the orient
of its on nous, so Min. Fitagonald parts at 8—Well I
surrose you might but I doubt were much whether

you've would get it.

500. 300. The contrasting on a year out the real both 310. The contrasting way below the first below the contrasting way to be contrasting way to come down it would get be worth it, more a statistic series which in which has been get as my but without the world and the world in the contrasting way to be the contrasting way to be the contrasting which was the contrasting which was the contrasting which was the contrasting which was the loss and these thinks place was the loss and these thinks place was the loss and the contrasting which was the loss and the contrasting which was the loss and the contrasting which was the contrasting which

disorded, its distinging will depend on a large extent of open denies, difficult to keep in order. And in syquation, the heads would be capable of bearing subject way small increase. I have gaze over the solution and in my opinus, the estimated improved value would never be resigned in that claim of hard. 873. Have you belief at the widnishes book 1—30, but I have belook at the submission book 1—30,

but I have beined at the schedule. 874. The leads have been put down at 5,000 neces, how much of that do you say would be improved.— There are 1,500 area put down as fooded, and 3,079 area so injured, well the greater postion of the latter are the leads that I refer to m capable of only bearing

878 Theo injured lands you think would not be secopible of hearing a great increased—I think not Yant re all I have to say. 876. Mr. Casaux—Would not the enteway boy to emphic of being improved by being drained—

Scene of them would.

877. Dark you think is would be a great improvement on their value of they were denied in—Lee, left it would be consequent report considerable appearing speech in part of the instant. I offinit the interved—ratio placed upon these brinch is been light preceding and two brinch is been light, are caused and which wereld be of considerable expenses, and which wereld be of considerable expenses.

878. Bit January Micratum—Harty year not belief as the whateven books deposited with the maps and adoption to the Critical Conference of the Conference

879. But in the valuation book the different amilitaken all the bands in the aggregate, good and bad!-

880. For metance, all the injured lands are placed in globe in the schedule !-- You 881 While in the valuation book you will find that

to form a more definite andgment on the question you Rickendstown Lower as a case in point There, 72

832 Bet in this valuation book you will find that

883. That is about three shillings per statute sere! 884 Well now, do you think that too much !-- I do. But I should now that it was only at the last

887. Well now take Rickenlatown Lower, there

there is too much1-It is 6s. 6st. per Irish sare-5:8 But have you formed any idea on to what ex-tent it would be suppoved I-No, I have not

580. What is the quality of the land? - Ger specking the had injured is poor had 850. What is the craffity of those six scree which to test down as injured while only six norm are men-

Stones to being Stoded

891. In the Valenties Book the injured lands in
Rickerletown Lower are divaded into different lots.

Officent loss, but I am aware that the improvement 892 Why, there is another let put down at Le an ere and a therelot at le sa acre-twenty acres.

Wouldn't the cutoway bogs such as have been described to be cut down as well as they can be and which are now flooded, be espaids of improvement if the floods were taken away altogether?-843. And should not a charge be put on them !--

894. Sir Jone M'Kentre. - I understood Mr. Mr. Hersey .-- Oh, I did not say the entaway bogs The cutaway bogs so Mr. Johnson says, can of course district from the entower born. The optower born

805. Mr. Barran (to seitness).-- Do you, Mr. John-886. I was going to sak you whether you could

Rathengun drainage has had upon it i-I could not Adym, 1005 give yen any operator as to that.

807 Colonel Connex.—In Killorn West you say Johnson Mr. Oteny

879 And what kind is the had in Blakuedstown Lewes b-Land of the name class.

900 Now, Begiertevn Lower and Begiertewn

901. And would not the deep bog he henefied by the despening of the river 1-To a very small

902. Are they able to out the turf down there now ! -I don't know the turf beaks 905. Can you cut down to the bettom for the teef new 1—I am not aware—can you tell Mr. Hervey 1 104. Mr. Hervey—We cut as much tard out of it

Colonel Camers — And you cut to the bottom ? 205. Hr. Hercey —I think we cut to the gravel

bottom. callow meadows which you mentioned, those are quite distinct from the injured limits !- They are flooded 107. And these are the lands which would be labely

108 Has that meadaw year much determined of 109. What do you think they suffer most from-the flooding, or the silt coming down!...The flooding,

910. Have you over heard of catale dying there

931. Generally speaking, your opinion is that nearly valoation schodale !- Quite so, 912. And a your opinion formed from having gots

913. It is distinctly your opinion that they would schoinle - Nest distinctly.

914. And our you give any idea to the Commission. a very difficult question, and I am hardly prepared to 915. Give an approximate idea !-- Well, I suppo

high charge for giving an outfall to poor lands. I 916 Of course that charge refers to the drainage

as well-it does not only much outfail acutally, but 917. Yes, but supposing there are tributaries comgenering difficulties as regards the river 1-None,

very small from Monastervan I believe it is only one decimal twenty-five or 17% from Monastervan to Athy, which some very mask indeed.

919. Mr. Bruss —How did you make your cal-

give us say opingon so to the effect which the

Acto 15, 1945 Mr Oterry

Mr Stollagton

cationated per Irish agen. ostimates per 1730 ores.

920. But then you took that so a mifreen rate over the whole 5,000 ores including the 1,926 neros. flooded, which Mr. Fitsgreald states would be all 921. And I think you told us fast new that she flooded hands, the callow heads would be very much

tengroved !- Certainly. sproved 1—Cerustay. 922. And therefore shouldn't you have charged for these at a reach higher figure 1-Probably-I

say cretainly, of course. They are changed for at 5,000 acres are set down to be improved £1,0461-

924. How much per Irish ame would that be for ingresveners 1-Well at varies from Sa. to 13a, 6d. 925. But how did you clearly it-I suppose you classified the improvements to some extent !-- Oh, it

accompted for the great increase in the value of the callows i—The principal part of the callows are in West Offsky —They are Greageon, Moore Abbey Demosns, Clogicon, Skinnen, Pass Land, Cocks-

terrigh, and Old Grange, all about Monastersvan That is about 600 statute acres. Then again there is the townished or running meanty an incodess.

927. That is 130 mmssl—Yes. Then there is
Goologh, a great part of that is nameless. A great
position of the terminoley of the lands is navny from the river-they don't adjoin the river at all.

Trick scree, and then took the people'de increase on 928. Mr. BRUCK .- An improvement of £L046 or 5,000 oces, the total countity of unused and flexibil

lands would roughly come to about 4s. an English 929. It seems to me that you have rather overoximated the amount of the improvement chargostic

stall a very large portion of this land is not along this

100. Lood Castlatows -It is not along the river 931 Of course the callows would be immersely improved and they me along the river?-Yes, they

952 St. Jose M'Kunzu -- World my part of these lands which are now flooded and which will

Not the bunds along the river banks, they are so 183 But of the large extent of 5,000 acres is there any portion that you think it would be advisable to

934 What proportion would you my !- I am not prepared to say 955. Colonel Carners.—Are there may tributaries remaing taxongh it?....Yee, a large portion of it would quantity of land must be drained by open drams 936. Is not the Finnery up there ?-Yes.

937. Lord Contagrows.—Have you any statement to make to us in regard to the subject of our inequiry? My name does not appear at all on the schedule 938 And what portion is absorbed by Lord Porter lington i-Bulero's Wood.

Sington :—Basseys woos.

339 You men by aborded that your lands have
not been kept separate in the valuation t—Processy.

840. The pertion which has been just down to Look Portarilagion, is that in the King's essenty or the Queen's !—The King's county. Beshap's Wood belong-

941. Please give un evalence with regard to that and we will have the mistake corrected bull should like in the first place to endorse the project which Mr Harvey has made I contains that the bandloods should not be made acceptable to may charge in regard to the improvements which are for the benefit pagely of nothing to say, except that it is some and not Lord Portarington's As regards Newtown, I find upon the intered lands are entirely different from those in the printed valuation schedule. I find that the flooded at 28 agree according to the printed schoolair, whereas acres, which is very much nessey the mark

are, 1-You, and I think it most be the reverse. The

Mr. Skofinsten Swortle exemined. gress total here is 172 seven, the flooded in put down Now that district. Another man has 9 seres and his voluntion is £10. I am now speaking of Griffith's voluntion. has goes to show that there could not be such a state 943. Crold it be that the faccing has incre-

since the valuation (Guffith's) was much 1-I don't 944. Not spifferently to account for that I ... No am not able to tell critically what the amount of the Sooded had as best I can have it engineered for you My hornds are hotsteen Mrs. Loon and Lord Down

945. What you wish to convey is that these 134 acres of flooded load is very likely either not out-cient or --- v-No; what I say is that that assount of hast is not flooded. The thirty-right acres is more likely to be what is flooded than injured and the

946. Mr. Barren,-What you mean is that the 947. Lord Carragrows .- Or che that the figures 248. Str Jone M'KERLIE-Had you an opports

mity of looking over the map !- I had not-cartil the other day when I came here. This portion of the country was impaired into at Philipshown has I was not able to be present. I dail not ecoire an

949 Have you since seen the map 1-I saw at last 940. It is distinctly marked on the map what in coloured blue and the injured lends green !-- What I seems by flooded leads to penarolly spending there is ordinary map, I don't see that here. I know that Downship should have,

951. Lord Carrierows -- I think Mr. Smrthe it would be the simplest way to have you examined about this matter at Monasterevan; Mr. Fitagerald

953 Can you give us any information with regard Spore evidence from people living in the town and who know so much about it. My information is more of

Mr. William Groupe, exemined.

954 Lord Carrierows - Well, Mr. Groupe have us a local auctioneer here for many years and I have

955. In that calley hard -Callow meadows slong sequence of the Barrow filling up !- Yes, the thorough

957. And the tributaries also !-And the tributaries

\$58. Look Cartarrows.—What do you say your expedience is!—Well, as reports the town shelf, I have lived in a portion of it which was uninhabitable owing to the water running toto the dwellings, which became uninhabitable for six or eight weeks owing to the flooring of the Barrow. I can speak thus of my has been attributed to the foods. There has been a count deal of the mostrum, which has become outle

during the whole winter months with six or eight makes of water up to their herens.

959. Sir Jons M'Krazan.—What do you attribute

960 But haven't they for many years been subpetad to be flooded?—In my experience the Barrow was never so cheked up as it is at present. It has

that the water cannot get through at all; then the 961. You speke of only a few years ago you were able to get the higher price for those meadows !-- Yes,

262. And now you can only get nine shillings an

ners!-Within the best four years I could not get nine slifffings an acce for what I used to get four pounds an som for Before the Land Commission, and also before

963. How does it come that the Berrow has been so remerkably destructive in the last few years, when we know that it has been forming on for agest-I enance account for it, except that more sill is brought down, and choice it up. When I was a key there were plenty places in the river about hore where you could bathe, but there is no such thing at all now.

563. Is there any other point that you would like to bring before in 1—No other point

964. Do the winter floods remain long on the lands 960. And are this univert to suggest floods !--Oh is was the winter floods that resmed the grass. They rotted the roots of the herbegy, so that there was

265 Are the lands which are flooded for a long eried in winter or spring more subject to summer looks than formerly i—I think it in the winter floods that do the most harn. We have not experience

houses and remains with un for works. But that 267. Mr. Barrot. - You make of 100 familiebeing subjected to having their houses flooded !-- Yes, 968 All in the town !- Yes, in different parts of

the town; in the low-lying postlene.

909 Do you know mything about the sewerage of the town are there asserts to fit. There is a essel town from one part of the Barrow to another; but it is very much choked up and stopped, and it wants a

970. Having reguld to the state the river is now. Gerteenly not. There is no full at all. It is a dead flat, and the river is quite as high as the land on each side. There is no outlet at all for the water to get away, and there is no use in attempting, for senitory arposes, to drain Porturlington until the bed of the

971. Colonel Cagners.—You say that the value of Ta. 6d and 3s. I sold a lot of mendows at Derryles. 973 In a dry summer, like last, those kind of

meadows would be of greater value, last summer there was a good crop of mession, surely they were not let for 9s an none!-Oh, hast year we could get to collect what was on them. Last year the average 973. In that on account of the same and dirt throws down on the river because the winter fleeds, which than higher at 1-Forms: floodings ruined the roots of the grasses, and they are merely recovering. Then may be better this year than lost and be better next year than this, but outsinly they are very had even at recent. My experience is that the callow fields 974. In a constary point of view, you consider the

state of the Beauw at present is very rejurious to the 975. Lord Carrareous -As you have long ex-ofence in the district, one was now whether the fleets.

the water were over the country quicker-the food

Mr Wilkers

comes down from its source and floods it much quicker than it used to, and remeles with us longer. It remains a great deal longer. Now, I have been present only able to bring £1 an agre as mendawing to pay a landlord for. It would be retrous to put

such a tax on.

976. You think the rate would be tee high!-977. Harn you may side of how the rate cought to be skruck's—Well, having regard to the fact of than being a question that will benefit the whole three Kungdome, something should come from some central fund that would relieve the people from the tex. If

978. You think that the diamage cught not to be done by assessing the value on the land !- You more for it will benefit the whole community. Within five

unles of the Borrow all recent will be improved and 979. Sir Jone M'Krazar -- Do you think the

160. How far would you say t- Fyer miles. I

982. Supposing there are lands not flooded by the benefit, every man in the neighbourhood, for miles

strend the Barrow, night to contribute towards the 104 Mr. Casstor -You think the area of charge ought to be extended, and that it should be extended 164 So Jose M'Kanare - Do you know anything shout againstiture !- I am a farmer myself. 185 Do you think any of these hands now fooded or accounty injured could be fulled b... It is a question whether it would be better to tall them. Tillings is

hardly a well paying thing these late years. But it

Derivers in the King's county. There are 85 acres put down in the schodule as being injured, but there

classes would, of course, arise if the hunds could be benefit for the men who have small haldings that they could be sore of their little crops. On our townbad now, there is a max that I know who sewed a crop. and destroys the whole crop, and that is at a place

387. Do you think the subsying of the lands from

988. In that only in the town, or in the Setrict !-160. Do you think the poer's rate would be affected by the improvement!—The whole community would

 Mr. Surra —Don't you think, if the drarger was done, it would nid greatly to corployment in the neighbourhood i-Unquestantally. It would give

962. Those lands with a depth of soil on them at present and which are flooded, wouldn't it be an ad them then as good as any other land you have

99% Mr. Bargs. Do you live in the town! -- I 994. As a resident of the town, do you think it

965 You would be content yourself to pay! 190. And see you aware of the opment of your

nrighbours on the subject at all 1- I did not have any

Mr. Jones Segmont Smallman examined.

998 Lord Carrierows.-Will you kindly state under the surface. A tributury of the Barrow rans what have to say, Mr. Savallman 1-I can corrobanate have the Barrow drained. It is the greatest drawbook make with report to the schedule, in reference to

980. What is the tributury called 1-The Bogtown Bogtown flooded, although there are some injured chain made there some years ago under the Board of Works, but it is not 1000, Does it work well !- It does work well, but

d made digitised by the University of Southampton Library Digitisation Unit

1901. Do you find the back water come up at all ! 1008. But it is included in the schedule !-- Yes. 1002 Having regard to that drain you spoke of, I papers of it were closed and the Baryow sunk itself shirbly, it would make the land up there theroughly

1006 Do you think it would cause an extra an recrement !- Well, I think that once you go there or

1004 You don't believe you would map any sidi-tional advantage at all by that drain being cleaned set!—I say we would. There would be an advantage

most decidedly. It is not efficient as it is on 1-Oh, you, that is the only thing I do object to.

1006. You have seen that the increase is about 4s an acre on Derroon?-Yes, but I would say it would on realize that much, the increased value would not be worth that. There might be about too arres mcreated in value to an acre, but the injured hands would not be improved to that extent. I made a

Mr. Barum.-Do you live on the town your

1000. Are you acquainted generally with the opin

1010. World it be objected to if a tex was put or the town property for the benefit derived from the Barrow drainings by the occuperts or the awarre-I most a tax on the property ! - I don't think it would be

1011. The Society Authority is the Board of

1912. Has any application been made to the Board of Guardians for an increased proprovement in the 1013 And what has been the comit?-The fact of

1014. I don't mean aboting redeances; but has there been may proposition made by the Buritury

the town?-No, not a therough system. We had when the fixeds came they brought back the sewage and selt and everything else.

1015. Therefore, it is absolutely necessary for a

1016. Colonel Camers.—Then you think that for July 12 men accessing to despen the bed of the Barrow !- There of flood courses the newage in threw'n beak again fato the leaves them very little mee, after a short time they more than anything else, and causes them to remain at Goptain Bowen's place there are some islands which have been growing there for the last eighteen

months or two years, and they have stopped up the river completely, at a place where I know there used to be six feet death of water. 1017 You are arrow that several recommutations were made to the Board of Guardians, about the un-

1018. And the Guardians could do nothing in con-

dered obsolutely uncless on account of the Barrow.

1016. Mr. Serra.—I think you said your mother bare !- We Jo. 1020. And you would be astirfied to pay a small male for the improvement !—I would be satisfied. We

1021. Lord Carrippows .- Has the health of the

town got wome of late years at not, within your know-lodge !-- Well, from my own knowledge the town is a 1023. Of late years have the floods anneased—have

getting wome and worse.

1623. Have these been special floods of any great

1624. Was there a lad flood last winter !-- I think

the one the winter before het was the worst one and 1023. Those were very wet years !—Yes; and the floods remained on the streets longer. We had to get

beenes would be up to their ballies and persons sould And how long would that state of things

1027. Has the silting up of the river got much more 1028 Is it noticed specially in any particular ports t

1629. Bet I think you mentioned some special points of obstruction-above the bridge i-Yes, above

1600. And you my there see intends!-Yes, islands That hadge as a good example of the state of the rest

1031. What other places are there obstructions at Oh, there is another at Captain Bowen's place below the town, and several others, caused by the felling of trees across the river. These shoutly become

1032. And have all those obstructions arises in your

48

small sandbank. I remember when we used to go and bathe in places when there were six and arranged to of

lifetims !--Ob, you. When I was a boy we need to estakes remething in the river and then begins to grow have regultan here and beating along the river-

1035. If those eletractions in the river were reits normal state !-- Ob, if those were taken away

Mr. George Woods wastl, n.e. Mr. George Woods Mosessell, p.t., expressed,

1636. Lord Cartarrows -- Do you wish to give us some information, Mr. Manuell 1-Yes I cole some information, Mr. Mannaell 1—Yes I only received thus schedule late hot night. I wish to pulse to the last stem on page 2, number 30, in the county applot these jots on the different tenents who hold them, but I are able to say that no part of she hand upon the meating river Beveree, which devides Kildere from the Queen's County. Occasionally the valuation gut upon a great part of the lands described here so flooded as quite erromous too. The present create, bringing it up to about £1 an Iroh nore, a estace. Within the last two years the Lund Cum The Communicators reduced it to £84 a year periods to the month of August, but £1 on Irish outful into the Barrow, and that it had a sufficient there is on absence owner, and he would never contribute anything, community I had to do it myself. For two or three years after the sinking, no on unable at present to applie these acres to the different tenants, but I would be quite prepared to meadow, but I repeat that it would be immostible for

a public desirage was carried out to an extent which 248 26, 96, upon me Now, for that £48 2a, 92 is year, I can never by any possibility receives feety pence. As to the £51 2a tol. which is chargeable on the tenants, I find the greatest possible difficulty in obtaining saything in regard to it from the terrents.

1937. Str Jone M'KERLIE - Livespective of the pre-I could not say how that would be. The Bavegue is acquired your I was joined by Mrs. Grattan Bellow, and the same result followed. So this really unless you could tell me how much the bed of the Berrow is to be

103). But if the drainage of the Barrow were narried jured lands, of four-feet. That is what the velocater has

acre on the present value.

1040. But that does not at all affect the question of an aure might be made, but is would probably bring had which is now worth 8s. or 9s. so Iresh sere to 1041. Mr. BRURN - Does the Bavague flow into non-it is at the too of Mr. Bolton's estate. bearent Mr. Brassington thrue and had the levels carefully taken. He laid out a new out maked of the Bavegus. Thus now drain would go from and to coronate of A207 was premared, said I was orate will ing to have the works estruct out, but I was mot by a tenant of Mr. Belton's—the men is now dead—who select me what was he to get if he allowed this drain to go through his banks. I tool him he would get the bene-int and would not be saked to pay snything, but he re-plied.—"If I don't get £50 I wan't bet it go through." Then I said I would term my attention to the amking

of the Bavegas. 1048. At the junction of your land then there would be a staking, I see, of about nine feet, I usp pass by a smaller withing your land would be completely relevant 1—Oh, half of these would do—half of

1043. What kind is your land, is it bleek pesty land t—No, it is cold botton pasture, showing the much in different places. There is no post on it. 1044. What kind us the upper portion of it !- The 1045. I mean the injured portion of the land!-

Oh, it is that tough and, thowing number graves, making very miliferent mesdew hard, but fair hard reasing young came curring manner. 1645. But that class of land would be very much benefited by being relieved from water, and the

1047. But that dam of hand especially !-- No, I like the some benefit that rish alluval land would 1048, Colonal Carners.-Is that healthy land for

young cettle !-- Yes, I never knew of any disease 1002. Do I understand you to my that the Land Commission valuator waved that good land of yours,

eighteen-and-stypence the Irish arre "1019. And the value which Mr Patagorald pats on

an acre, which would being the figure up to twenty 1000. That is, it would be about outal to the value

Board wrote to us repeatedly, but we could not do

Mr. Phomas Cobbs, Portschington, examined.

enything until the bed of the river Barrow is sunk. 1061. Lord Carrierows - Have you say inforcetion to give us t...I wish to speak of the sensiory con-dition of the town as a member of the Sanstory items. Some time ago we made a newer to improve the town at the King's County sule, but the river throws the

sand back into the sewer, and in a few years it will Secretary Board removing the making of sewers and over amin. During floods the condition of things baving the newers cleaned out. We sent our Clerk of Works to vitt what is called the old canal, which appeared to be thus, that the inhabitants could not cross the street except in heats. I have seen the rute through the town, and is used as the mean sower. It is covered up, but it is nothing less than a stagment flood no bad that a cart had to be kept employed to carry the people on towards the King's County part. pool under the house. It won't carry off the arways for the reason, that the Barrow analy it had notice I have seen all the people in Spalane obliged to leave and, besides, the river has it nearly filled up with and The result is that we cannot do anything with the neverses of the town. The Local Government

1049. My. Cleanur,-Are you the owner of any house in the town l-No; I am a guardian for this part of the town, and therefore I think I ought to be

1051, Lord Casmanows.-You stated that you ship in test. spent furly pounds in taking the sedge out !- You, on Mr. George 1032, How long ago was that !-- I should think Memelt au-

1053. Have you spent any money on it since !--Oh us, I have had it done on three different occusions, mi I complemed rather hitterly to the trusteen of should not belp me. On one occasion the trustees of swenty pounds. It was done there or four times

bers, forty posmile. It is shirtly dragging. 1004. Therefore, if it has been done four times in thirty years, you must have spent £120 upon it!-Myself and others.

1005. If the Bureow was mark to the depth peo me, to go to this expense, and would not that increase value !-- I thenk the rich alluvial Israin are especie of almost any improvement by drainage, but I think cold bottom lands like these are not by any means ornable of the same improvement

1606. From your experience of them are these dying out and the new grasses, more attached to a driew soil, are coming on, to which what I heard to day regarding measions applies strongly. The land for a few years in worse. The lands would require to There would be great difficulty in tilling acre that I get for it.

1967. There would be additional expense after the

during to till this land 1-I would not concemplate that at all, I would prefer to bring it round by topdrowing. I think tillage would be a complete 1058. Your opinion distinctly in that the valents

it is exceened, and I think it is a mesdescription to describe it as dooded, except under the most excep-tional state of efform. The doods remain on the lands only for a very bainf period, and it is only in the case of extraordinary excessive mans there sould be any-1058. And in order to maintain the state of things which exists you have to cut the sedge away !-- I

have. It is a very signing stream, and that should be done nearly every year. ,060. Don't you threlt the land would be benefited by the proposed dramage to this extent—that the effect of carrying out these works would be to relieve of the good wheat had !- Oh, that is a reat that van from doing that eleging out !- Certainly : it could not he poul, and any attenut to levy such a read

Mr. Thomas

July 27, 1345

10

interested in gotting any benefit for the town I think necessary. I believe it to be absolutely necessary for auts to have the Barrow lowered. I don't there is my place along the whole line of the Barrow which is as budly off in regard to flooding as Postarlington. I don't know how, in a civilized place, such a condition of things was beene with so long

1043. Lord Casmarown.-Do you think it is the opinion of the inhabitants that they would be willing to beer a rate for the improvement of the river !-- I for it is absolutely necessary for the health of the form and the comfort of the inhabitants to have the work carried out. A large shapknesser, to whom I spoke on the subject, told me he would be glad to pay a rate. Where you have a street flooded, and the yande flooded, and the numbers and owner carnet get away from town, it is a ctute of things that must estribute towards postilezen.

1064. Mr. Brans.—You know the town a long time !- I was born within two or three miles of it : I know it ever sinor. 1065. In your opinion, have the floods much increased in height !- They have. In the last three or

four years they have increased. They were not as

1016. Do the floods come down oftener than is full. The sand is brought down from the mountains boyond Mountmellick, it cards round snything that is, and so on till there is a bank. A little above the heidge you will see a bank. The fact is, the water

could not get away from this town at all were it not that the people draw all the send they want for build. time the people was one are used the people of the five wealth be copped altegrather only for that. Colonel Carden, the Chairman of the Statistry Bosed, known that the Local Government Board weeks to us, but we could do nothing. 1047. Lord Capptarrows.—Is it your opinion, as a

100). Left currenters—in it yets species as a Guardian, that the people would not mind the im-position of rate at all!—I don't believe they would The people are willing to do maything that is fair.

Mr. Sidney Jennings, examined.

1008. Lord Carriagown.-Will you lendly make any statement you have to effert—I wish to speak about the condition of the town of Portaritarion, in toon years, but left it about four years ago, corrections a good shall of what the other witnesses thing in addition. There are very few houses indeed in this town, save those that are on points of communes, that are not flooded by the river Barrow, their beacount storys. At the Police Burrock, as the Ottom's County side, I have soon ten inches of owter in the lower story, and necessity for halling this out Ac regards the question of newsrape, it is stierly impossible to have an effective system of severage in the town under the existing The Local Government Board, I think, did compelling in the war of properties more of several two nevers to my knowledge in the town. They intersect the main street, and I think they are serious nulsances mateud of being ownre. Ther only accounts late fpol matter, and unless they are enouged out realate first militor, non university are monard an per-perly (which does not very often occurs), it must be a source-of-very great danger to health. Now, so regards the fooding, I have seen the bridge, at the back of except they shoom to take off their clother. I have seen the people obliged to travel in carts or other On the other side of the bridge, which during high floods. As a motter of opinion, I may Had it been built on a numbly bourn, I am pertain it would be annihabitation in its process which is sport for Evens and M Neill, remove, estate, which is intend only to call your attention to portion which is in the Kung's County—Cloudedtack and Trasean.

1055. We will take Cloudedtack faut—what about is 1-There to nothing to say about at

1070. You don't object to the areas which marked down as flooded and injured !-- No. I have looked at the maps, and as I can see from the maps

the arms are correct.

1071. What about the present actual value!—I have no means of knowing that exactly-I could not

well separate the buildings. I bog however, to say that the estate is in rather a teacaitreeal state at nonext. The great body of the wests have been revised by the valuator appointed by the Court, and with very sions, but the Court has not yet appeared of them. After the revinous have been approved of, the tenants

1072. Have you seen the valuation put down by the valuator here !- No. I would suggest it would be desirable if there were any means in your power, to let me know, so that I might communicate with the pier—whether the proprietor will have to bear any.

1073. We have nothing to do with the appending the rate. We are movely investigating the subject, and chelding information with regard to it. We shall be lappy to receive any information was one give no !- I have communicated with the Court, here to-day, and that similar meetings would be held

1074. That is not a point we say enter upon. Explain to us what you went to rut forward I ... I would agreement with the towards, at reduced and revised rents for the statetable period of fifteen years, I raight be able to inform the Court in what way the interests of the estate have been tousted by the Com-

1075. We have no powers of treating with the estate. We are merely an inquiry Commission, but we can make recommendations. If you state to us most advisable, we can put that forward at your tests mony!—Well, I would only repeat the observation that I think the party who has the benefited interest. whether it be the occupier or the lumilard, chould be 1076. Personally, as far as your knowledge goos,

on those lands!-- I have no monus of knowing the

valuation, because the whole of the townlands are 1077. You have seen the map !-- I have. As to she coloured part on the map, I believe they are 1078. It is rether a large amount. If you could give

ignity of socing the valuation book 1—Yes.

1079 Str Jone M'Kream.—The schedule gives the valuation in grow, the book gives the valuation divided into lois. It is therefore easy to see what the preposed assessment is, in the event of the works

bring carried out, on the different lots !- I have seen 1930. In Consociute sand Treson, it will reage feren 3a to 12a 6d, the stabule arm, but there is only

a small quantity at the highest charge, about twalve acres 1—There as a large quantity of bog in communion with these lands, and, or a matter of fact, it is not

1081. Lord Carrierows. - Do you assume that the bog comes within the area mentioned !-- I cannot tell

1082. Done your observation apply to Gendeelank

1083. They are not marked here as box. How much do you my is the bog sees !- I senner my. It is not so much about that I with to speak, as with regard to the injury muzed by the floods. I have known these lands for many years, since 1878, and, menking expensily of the whole estate, since that time injury done to the crops alone has been to great that 1084. Have the floods ceased at all !- They have

not been so bad since 1883. to been so this waste about 1085. Give on idea roughly of the inferry de

regary data 1—5000 on account of the Midry scena We had to take several things into consideration, first and ferences the elements. The cainful increased temperabushy, for instance, the maximum average minful in the King's Oversky is twenty-eight inches; well, in 1883 it was thirty-six inches 1036. That was a temporary effect, but what was

the effect of the fooding !- The summer floods first rendered the caving of the crops wary presented. The August, 1883, I happened to be out on the townland of Inchacoley two or three days before the fixed There I saw on what used to be a magnificant piece of posture land, cocks of hay, many of there made up passure and, come or may, many or term more up and saved, and the rest in different stages of manu-facture. Then, two days after, all the evep and labour saft overything was lest and raised. Not only was the key taken away, but any prospect of freeze green was destroyed. And I have known evil effects on the cattle which have used the pusture after these the pesture take disease and pine away. I am sreak

more on the land. In connection with those remarks, I would wash to any that the effect of the floods has here to my knowledge unsterially increased owing to the water having been thrown down very much more rapidly from the Rathunger and Keldure drainings districts. What is called the Black river, which folls ave years ago, the people holding callow hash were able to respare for the floois-when the rain comfor them. But that is not the man now-they have

no time to prepare—the floods come down at or Some of it. Most of the hard of Transon, which is

so the King's County, is injured. The amount of lead put down as injured, in Treeme, is 278 acres, spik as feeded 163 agres. Well, that had is more on the river margin. The injured lands extend a con-

to beg and the river.

1088. In that 163 acres callow hand t—The flooded Jessings rtion is meadow, along the river banks; and the

278 norms, the injured parties, is more posture. 1089. Have you noticed that the improved value put mon that land is very high i-Yes. 1660. In your opinion would it be realized !- In s great many places it would. I have always bold

flooded Inchancely lands with two Land Commissioners and we got in some places twenty inches of beautiful soil, and in other places there were only ten inches.

Commissioners !-- I can get it for you. 1072. Mr. Smrm.--How much per sore was the abstraces which you allowed in consequence of the floods destroying the cross t-The scale upon which the abatements were calculated by discotion of the Court was an appendimate one, made in comparison with the

1093. But the abatement was not made in coning the crops !- The first shotement was. given, and that was made upon a comparison between the rent and the poor rates. If a man's rent was so much above the rating, he got more than a man whose under the poor law valention got none, but there

1034 But what was the total of the abstements in personance of the lands being flooded—bow much do you think they would come to in moneys numbered!

—They would be on an average of about 20 to 28 per cent, on the different parts of the estate. 1096 How much on the whole of the estate !- I could not self that

1006. I want to see world it amount to as much as

the improved value set flown here !- Well, I can have that for you at the Monasterevan meeting on the 1007. Lord Casturrows.—The Commission would

1008. Colonel Camers.—You spoke about absto-ments having been mide—were those absternants made.

1089. What I wish to find out is, whother those shatements were made salely on account of the flood

ing 5-No. not solely on account of the flooding. 1100. Bir Jons M'Kenaux .- That was for the crops ? -Yea, for the crops.

1101. There is a very large portion of this land only 1102. Do you think that Se, an acre for the improve ment which neight be effected by the works too much, that is St. the stutute acre |—Well, I would not think

it too week, because these leads are very wet and very cald, and there is no full.

1103. It is contemplated that the works if excited out would give a power of thorough draitage Me. Salnen

Michael W.

to the depth of four feet, do you think the land would be done!-Oh, certainly. I think the giving of an out fall to the injured lands would be intransfeally value 1104. Take the townland of Clendoolesk, there are

then there are 12 seres out down at 12s, 6d I umsame it is the rish lands that you have been referring

1105. Then there are thirty acres in the same townland put down at 6s sar-sero improvement-do voz think these are fair averages !-- I could not well

1106. Yas, supposing they were thoroughly drained, sare they would for there must be deep land there.

cognine that on the maps?-Yes. 1108. Would 12s, for an acre put down as the charge for "unproved value" of that hind be too much—that ment be very good hand 5-Well, no; I could not say

ceese down to the corner. 1100, "Lot 6, thirty-eight acres, probable inspensed value for an acre "—would 6a, be a flux charge these ?"

1110. Then take the other townland, Tracean, you on the provises metanor, 3s on occe; but there is let 5. on the assumption that the risk and loss to which you here been referring, will be altogether avoided in one the frainings is extried out !- Those parts we are deal-

1112. The last lot is marked number 7, it appears to be of the highest quality and the probable increased velue put down is at the rate of about 12s, 6s an blue are lands which could not be tilled in their present

1113. But you must assume that the heads will be resolves itself most thin-will the party who is in a you, but one man maght avail bisenelf of the fell benefit and improve his load by thorough dramage, and make

it a great deal more than 10s, an none better to him but another man might not wish to do that at all and the charge would be a burden on him.

IT14. Mr. BRUER.—You are well sequestated with this town !- Yet I sm ; I lived here for the last neven

1115. And do you concur as to the recomity of

lewesting the Barrow in order to make the sewery work and have an effective system of sowerage t -Most certainly. I know that the Burd of Gundings get a fall. There is a portion of the town in the King's County, a quarter of a saile from this, and that is the 1116. Mention was made of two sewers in the town.

Barrow goes partly round the town, and what is called posses under the main street. It is dried up, and in used as a main sewer for surface water, but it is not a nower at all-it is in a hallow in the middle of the main street-it has no fall into the river, and it is newer by an open dutch to the river, the fall being

very litch 1117. In your experience have the floody been more

1118. I think, in the first part of your evidence you mentioned receething about the number of inches of rainfull!—Yes, I had the means of knowing what is was twenty-eight inches, but an December, 1883, the is in court, Dr. Hanlon, keeps a rain gauge, and he

you so deare. . 1119. When you say the rainfall was therty-six Documber, 1883 !- Yes; thirty-six tooles of coinful 1130. And we may take this to be a fair indication

Michael W. Houlen, M.R., extendand,

1121. Lord Carragrows -- Would you give us some kept a daily register of the weather in this town for state of the district in general. These returns are published monthly in a some-Government department which is constrated principally by Mr. Strooms, of London. These published mentily returns contain Information regarding now or 200 movemen in Auguman, Ireland, and Scotland, and if you look at them, at the

> saucited returns for Portarlington-(Handed in 1181. From your great knowledge of the district the distant !-- I could not conceive any district which could be werse off, in respect of flooding. I may

mantion a case a very extreme assemblating to the effect of the fixed which occurred two or three years ogs. A man was lying ill with fever in his become so wonk that he could not be removed, and I was asked to go with the medical officer to see him called to see him there was a fact of water under the occupictely flooded.

1153. Was it flooded continuously during the winter!

That was it spring, and for several years that has

1134 Every year growing wome t. Every year rowing wome. The lane which you can see from this

abliged to leave the horner

1125. Have you may knowledge with regard to episimio !-- its precently here. I think the foods conduce very much to disease here. At the present manced we have neuristims in the town, and we have a good deal of fever from time to time. 1126. Is these much fever best now !- This is not the time generally that we have the fewer-it is in

1127. Is the town ever free free scarlatina or fever once of this sort, or it it only occasionally 1—Oh, it is only occasionally. There are very few classes whose g is constant. Perhaps the most countant place we

lare in this country is about Dublin.

1129. And this produces these fevers !-- Yes, and it a not only human beings, who suffer, but easily suffer This spring we have had a great loss among a depreciator the stock. They are not equal to what

1130. Sir Jones M'KERLIE.-Deen the interious infrances of the floods extend beyond the noted flooded ur two or three miles at least; and of course the air

egries off the damp of the flooded lands. 1133. And that, of course, affects the health of the

district, not only of the flooded lands, but beyond 1184. I suppose it produces fever and rheumstian t tion to a very great extent—coughs, authoras, and afteneration of the lungs. I have been keeping a then there was at first when I began. I began in the pas 1843 to keep a register, and then, of course, we your discuse has greatly mercaned in the district.

1135 And to what do you attribute that increase? May 17, 1861. To the fooding. 1136. And to what do you attribute the greater obstruction of the river!—Entirely to the mad from the mountains, brought down from the sandbills of

convoluted there for years there would be no reason -You; it has been accumulating there for years, but it is coming down gradually. We have records of it is coming down gradually. to m coming down gradually. We have records of eighty yours ago showing that heavy barges came up the riter to this bown, and I suppose a skiff could not come up now. I think a great deal of this is due to the weens between this and Mennsterevan, and at Monasterevan, and below Monasterevan, towards

Athy, there are obstructions which will not neguit 1158. But then always existed—those obstructions? causes the mercess. We put what are called flags, for chearasts, slong the streets here, which are nothing but grains of soud with some solid cement, and when fintely. Formerly we used always himostope from and they were very durable, and some of the old inhabi-

texts are able to recognise some of them as having been in the streets far eighty years. 1139. Do you think the ununitary state of the it profects a number of orphane, and we must pro-

1140 And I suppose it produces a number of sizk persons also 1—Of course. I was for some years a guardism of the peer in Mountmellick, and know

1141. Mr. Berres .- Could you o're to the Console

1142. The number of makes and decimals of rain and discuse; but within the last tolloon or twenty book. I have the returns by the mouth. I will past the information you require to the Segretary,

1145. Land Castarrows,-Do you wish to give us

of the distract, in which I am more interested than saything clse. There could be nothing worse in any completely put out, and the inhabitants driven in the upper stories by the floods. I have known the floods to stay for a firsteight. This condition of things I have seen at Bucklevepw and Bar low's line and Sus-lant, Onesn's County; in the Sug's County, adjoining the police barrack. The authory authority node a sewer to take some of the water off, but the hask water of the Barrow scods it lack agern. A man to-day assured me that he had to distance off. When the back water of the Barrow strend there the water is very unlit for human use I have driven over the district rayself, and have exfrom off the water of the flooded leads. It affects the sometimity at large. I for one would not be in favour point of view, if you relieve one part of the country

Mr W. H. Cold, of Perturington, emmined, the whole surrounding district will be benefited. I will give you an instance of what I mean. If a man coming into the town of Purturlington to market or on commercial business estables societies, he may carry the scariatina through the length and breadth of the land. Therefore, is would be the interest and breaft of the people in the surreending district who come into the town to have the town in a good santters condition. I have, so an auctioneer, set a great mast of the Pullough mendows between this and Brackens Well, in the years when we have good weether we could get a fair price for them, but in other years we would pity the poor people; some of them went into the year these was an improvement. The weather was better, and I got up to £1 an acre. I set some land on Tuesday last, and I get from £1 to £3 an acre for the same load that in late years I could only get from 1144. Celenel Cames.—Are these messions on the hadrs of the Burrow 1- Near the Burrow within Inchecooly. This is a part that if the lands were dramed they would be worth a great deal to the country. My calculation was that it would cost about 49 an acre, and if that was spoud over thirty years it All governments abould once for the health of their subject, and the Ragibb Government of today more shear my other in the world. It engist be a demined by the gentlest humanity, and therefore I think that the Government cognit to gave a perhal would be indirectly made, and not ensity the manchole be collectrated by the contract of the manchole be collect. If the Government does not give us gents of twomatch the people to pay or to ago to ago into the nation at all, because it would zever pay in a peceniary point of view.

after point of view.

1148. Do you hald say band yourself—Not inmemberly here. I live within these mine of this.

1146. Data would you be subject to the rote 1—1
think the area should extend further than my ploce.

1 think it should extend to a very large extent through
the country, bosonse I have been the destore sweet
that benditts may be derived from the yearonal, of a

ngisanos five miles away. 1107. Does any land of yours come within the peoposed area 1—I come within there miles. 1168. But you are not affected-you are not meretioned in the echodule !- I did not see any of these scholules. I got none of them. I have the minutes of the Suntary Board here, thewing what was done I have Dr. Burke's opinion, Dr. Tabuteau's opinion, we could do nothing until the Harrow is drained-(Hande in documents.) There is also a sower in the intolerable to walk near it. It has no certict, because it is stopped at the mouth by the river small, the Commissioners will recommend the Government great drainage to be carried out, a designer which has been made the subject of Government for fifty years. As so the cost on the locality, anything note than three shillings an acre, in my opinion, would not do. I totally disagree with some of the headleds who have spoken with regard to the charge

pay of least a buffer-out. It would not recommend the demines to get on make it got a quant of a ball, and they get in the Shaman, should, and other places the state of the shaman should be a buffer places payed in the shaman should be a buffer of the shamed would have a speak interest in barring a stream shall be a payed in terms in barring at the total places the shallowd would have a speak interest in barring a stream shall be a payed interest. But has to depth in paying to a green place of the shamed the shall be a shall be a shall be a payed whether the payed has to depth a paying in green paying any objection to pay a state in shall—I mane them who are objective to pay a state in shall—I mane them who are discovered by the designate—paying laring that no the onlying in written appeared of the storage, and that no the onlying in wrone parts of the storage of the paying and the payed of the payed of the paying the payment.

ability of payment in this matter. If the Government

I have faith one or some coper; and one some that by the improvements their health will be beauticed. They would not object to a fair payment. Another witness today referred to the striptomes. I consider that all the tributarics should be unset to contribute.

1150. But they are all included — You, but I would to show that worker now would have the jers and to

to show that greater cost would have to be inserred to ask the bed of the river for the benetic of the contributes.

1151. 82 Janu M'Kraugs—You meetimed that through invelling through the country you had experienced the discounter of a zero throat from the old, wet atmosphere you peaced through i—Yes. 1158. How for above the actual feeded burds side

you experience there attacks I—I felt the attack the minute I cought the breeze coming over the floaded bands, a mile away. 1163. Would that be in the early part of the day

1153. Would that be in the early part of the day or in all boars t—In the morning and evening, 1154. And was the air chegod with mosture in the shape of initi or fog "—It would be wosse in heavy weather than one shwape day." 1150. But supposing It was not a brevey day, would there be a man bove the head—Vec. 1150. And how the boyund the flooded hands would you find that "—Oh, I folds it for a raile. 1157. Then three wend be a vast extent of compajunymontary inflicted by the freeds though not supingurposity affected by the freeds though not sup-

injuriously amounts by the arcost neight to 6 selectly fooded 1—Corbinally, and is person with a reliable throot would feel it more than any too class. III.58. Yes thinks you could not feel the effecting this down side for more than a mile way 1—Well, at the efficience of a mile way is the feithest than I took say neitre of it.

II.59. Have you say knowledge of agricultures at 11.00. Have you say knowledge of agricultures at

1180. It is your equaint that the wet fag would affect the aggressived condition of the country with in the acope that we are speaking of #—There sinc declet of it, become the charp weather supeclally in harvest, in more likely to do higher to cope.

1161. Would it retard their spenning 1—To.

Hell. White is create user repressing — the first had word wrater them onlyfed to blight, perhaps — That is my experience.

1165. Bet you could not define the limit of the resets to which that would go—the range !—I rower peak particular actionation to the quantiles, but I know the creps would be injured where dump atmosphare or monitous permeated.

1106. Mr. Burer.—Yen mentioned its an acres the sament for that benfully to be paid in regard by the suppresented of the injured hards—do you ment that to apply to the obstate acre or the fifth acre.—Ob, the frash acre.—But the first have a suppression of the first hards are suppressed in the first hards are suppressed in the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards and the first hards are suppressed in the first hards are suppressed in the first hards and the first hards are suppressed in the first hards are

neres and 28,000 ourse of log offerted by the devilage, of course I would gut on a havire change on the plant—filtage lead, than I would upon beg kind or motors.

1166. Then Sa an arre-weak be the everage b—the average.

1167. Have you considered how much the lead that weak be not been fixed—the best hard—could dest weak be not been fixed—the best hard—could

effect to peyl—Time use seem book that will be headfule the partial of the and To a more, when headfule the partial of the and To a more, when the period of the period of the partial of the period of changing headful produce with, and you went would be see To, an one more when changed when the see To, an one more when changed. Wright of this condensation to the size maniform these and conditional work of the period of the period of the other period of the period of the period of the other period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the period of the period of the distinct the period of the distinct the period of the period of the period of the period of the distinct the period of the distinct the period of t

the improvements. But it weaks onto agree on the locality, the more you operad the area. 1169. Lord Gustarows.—Your idea is to increase the area of charge as much as possible so as so utilizate the oost all round!—Quite so. 1170. You would have a made of seven !—You, a colo of mea; that is what I would consider most

filts of mean; term in which I would state our means; the filt of the mean of the mean of the filt of the mean of

1171. Lord Castrarows.-Who are you!-I am the river Barrow, in the King's county, harany of Pruces; but my holding is not recutioned in the

1172 Is it fooded hard?—Is is not fooded, but it is majured by the floods. I have about four or leve 1173. And you are sure it is not marked on the

sept - I sen I fully agree with what Mr. Cohie has und-that unless the Government gives a very large amount, my two-thirds, or at least half of the great dram the Barrow, and try to put eight shillings or

and shiftings as some on one scans.

1174. What would you say would be enough to pay for your least 1—Well, about these shiftings an acre is what Mr. Cobbo unid. There is very little of my had flooded - it is injured and certainly it would be greatly relieved by the carrying out of Mr. Mazering's school. But supposing the Government failed to contribute largely, it could be fairly relieved without

1175. Have you may experience of the fermation of three-blands 1—I have. For the last ten years the mer has closed up more than it sad for 100 years ught or ton yours, as It has during the last eight or on, there wall he no river at all, and it would be

1176. I first your land is mentioned here, in the look, No. 6, what kind of land is that the Cutaway

Mr. Patrick White examined. 1177. Would it he fair to put un improvement rate Mr. Perial six shillings per steinte acre on that hard 1... No. White. of six shillings per steinte acre on that hard 1-No, for the land stuff would not be worth six shillings

an above on the above parents.

1178. Well, in regards the few acres which you may are flooded, what do you think the improvement to them would be worth?—I think therough drainings

would not be fit for tillson. 1179. What is the meat, do you think, the improvement would make them worth !-- If the foods were talon away altogether, I think they would be worth thirty shillings as seen; but that is a very small portion

Barrow: I can not counting in that the bog posture. 1180. What would the bog posture be worth clearly drained b-Aleut seven or eight shillings on new, if clearly drained.

1181. Mr. Savra. - Is not the land the yorse of he suggest is that if the Government does not give a large relieving the lands, would be to remove the sand bods and husben and armall advade and take out the aburpes to you so the map would be better for grading purposes, but it would not be worth saything for fillage.

Lord Cornerows.—Let your neighbours know that proposed increased valuations put upon their hoblings by the valuator, or as to the areas, the valuator will go down to their places and see into the objections.

The Communion their adjourned to Torothy, the 21st July, at Monasterevan.

TUESDAY, JULY 21st. 1885.

The Commission mot in the Courthouse, Monasterovan,

Pasent -- Right Hon. HENNY BRUES, Vice-Chairman, presiding; Sir Jones M'Exérce, Colonel CARDEN, Mr. HASSARD, C.R., and J. A. CASSUNY.

Mr. PENNY, Secretary, was also in attendance,

Mr. Barret.—The Berrow Drainage Commission is now ready to hear may evidence which may be offered to it with regard to the salesne and area, the schedule of which has been forwarded to all the proprietors.

Dr. Joseph Tubuteau, examined.

1182. Mr. Bacast .-- Will you kindly give your evidense in the form of a statement, and then the members right that I was not able to be present at the mostat in Pertarliaston, but I was summened by the technicap, previous to getting notice of your sitting the sanitory condition of the town of Perturbation smageri and injured to a wonderful extent by the contact I fooding of the Barrow. As remarks the through by the Berrow, and flooded to the extent of large three or four or five inches of water in the

with water from three to four inches in depth up the

posts of the bod, and I rayself standing on a chair. posts or use too, the a suppost because an a course of requestive attention properties of the beauter are surposed of clayer morter and mark. The food leats generally the floors in a terrible class. Damp, had vapoure exhale from the floors, and all kinds of mischief are done in that way. The result is, that under such cir-cumstances the people who are all poor, we find great difficulty in getting them well again. There have and fever. There was a considerable guthreak of most dangeover character and most virulent type, would not altogether say that the fever at that year, —that an immersity of damage is done to the wells of Portarlington, that is to the peace wells of the town.

Tv Jamph

from the flooding of the Barrow, which flushes back bed water through the sewers into the wells. There has been a good sical of scarintina in the place. Of course you must look at bad drinking water as one of the most dangerous things that could possibly

water in the personer and wanter !- No, I could not the arears would be a little flooded, and then the of the Constabulary, but I have heard there is one in

town that you say is liable to be flooded by the rise of the Barrow !- It is There are two police barracksone in the King's County and the other in the Queen's with water. Even some of the houses complete by the exerter of the town have water on the flores. I soon on much an four inches of water in some of the

1185. Have you observed of hits years say becomes in the floods?—Yes; I think three has been a confor the water to get away. I know the river Barrow to half on sore of sand now lying at the bridge, where I remember a few years ago these were only a few cars lands. Consequently, there is a regular dam formed

I186. Do you suppose that the sand comes down more by the Burew or by the nyer that comes in

a different direction. 1187. You are the sonitary officer of Portadington?

1188. And I suppose in that support you have hed censes to lack to the sewerage of the town !- I very last state in some places. There is no main sewer

1189. Is it nounble to effort a proper system of sowerings in the town unless the river as lowered !- It is not. I den't believe it would be possible to do so, becarse no matter how often the sewers are eleared

1190. Do you observe of late yours more fleeding in the summer than there used to be !- No ; I don't think so. I did not particularly observe that; but I much leager in duration—that is, before they get

1191. And I reprote that is attributable principally if not entirely, to the choking up of the river !-- I

1192. And I suppose it is partly due to the insurance of the numbel of late years —Xee; there is an in-means obstruction between Portschapter and Means. melifick. Whenever the trees full they all lie right norms the river. They collect all the fittle brushes.

1193. Has snything been done in the locality by clear away those obstructions !-- No. There is no improcess deal of obstruction in Corryshool

regards obstruction. 1194. Se Jonn M'Kenter. Do you regard the town

1195. Are these periodical 1-Well, we have crathreak of fever so that alleaked to for four or freyears. That was guarante typical favor.
1195. You are well acquarated with the district at large t.—Very internately. My district taken in about

eight square miles. 1197. Do you look upon the floods to which the district is subject as dangerous to the health of that

1198. Do you think that the injury extends beyond the actual area of the flooded lands !- No, I would 1198 Dee't the finds wader the atmosphere wit. damp, and cold !--Ob, yes; very bad.

1200. And doesn't that dump atmosphere extend 1201. But reakoning the district in a whole 1-04, 1502. I believe it is a very flet district 1-It as very

And den't you think it is injurious to the means or one district warm-toose using soft agreed ever these wet flooded lends 1—0h, they do, but I have not found that they fajore my general district except within a male of the town. There is no flooding except within three miles of the town, and the floods dell affect at all another ulsee where I have get another

dispersory-Closecygowen, Kenyglen-1904 Colonel Canture ... You my the health of the 1206. Do you attribute that to the sandy sul! Not retirely. 1306. Do you attribute that to the sandy soft-

Well, I attribute it to this, that on one side them is a limestone country, that is away towards Mount Henry, 1907. But it is a randy sell !-- In parts, and con requestly the water and bad matter will peneturie it a great deal caster than any other sell. I look spen

1208 Mr Berry.-You believe the water and had matter will eventually permante the wolls i-I think it is carried back into some of the walls at the 1209. You have no pipe water in the town !- No.

1210. I have before me here a copy of Report from you to the Guardians of Mountrellist Units, dated 2nd February, 1883. Do you remember that report—No. I could not bring it back to my mind unless I had my blank book here.

believe so.

[21] I. Will read Source to you, and saft you when you continue. If In this reproposation we have you continue. If In this reproposation we are a facilities of Officer of Reads (1 lang to space to your sigh boards in the term (socrapid by the informacy profits), which have been readered tank for human habitonic oward, so the recent Sologing of the Hires Horrer. Proviously, said river not work before to each an exceed. Some of the propriet of the America of the Propriet and cone who remarks the propriet of the America test house to test house, and cone who remarks the propriet of the America test house the Propriet and cone who remarks the same and the Propriet and the Propri

and rive this were before to each an extent. Some of the popile belt to Mandorn their Somer, and come who remained they have been assumed that the same that they have a second they have they have a second to be belt of the same charge or other shape as regarded the both of the same charge or other shape homes, as well as the people in gooset of this state that become, as well as the people in gooset of this tense many confiders on which as of these representations and since effectives. I are not oppose this would be all remarked in the Batrone demange to control out of the same charge of the Batrone demange to control out of

an learner arrange in carean car.

And than follow the names of the respective parties

she corrupted the human—forty-four names!—I recellect that Beyord very well; it is quite true.

1212. Has anything contract since to carsic year to

change year opinion!—Nothing.

estingly pear options is—Notining.

1915. I think ye said you suspected score of the
within of being political is—I believe they see.

1916. It has you saidly so to make of the water
of the twents—No. Score years ago De. Wall, who
jaid. A large stood in the torms, and my water from
our of the younge it is, place to De. Notineron for
sulpius, and Sh Odasho Conscern north into their word
and the stood of the stood of the stood of the
total to forced on sindy pool; manthewate register,
and the third. I Chris he said was ware in Secure

at all.

1916. In not there a public analyst pair by the
Grazzi Jury 1.—Yes, I think Sir Charitor Cameron is.

1316. Might I ask you then why the water in these
supported wells has not been analysud 1.—I could not
pully amover that quantics. I believe the bost water
in the town is to be down in the public pumps, and

the water suspected of being had in in the private purpos.

1217. But maker the Public Health Act cannot the yelvite promps be sendyned I I think they can 1—I due only they can.

1218. Colonal Campus.—Were any of these wells

you speak of analyzed by Dr. Cauroson, by direction of the Board of Grandiant, by you recellest 1—I don't wouldoot. Dr. Woll seet the water freen his pumps up privately. It date say many people are and name that they outli send memples of water from their private wells to the public analysis if was not excited of 3 tell new, from what the Conferman set certain of 3 tell new, from what the Conferman

picate with to the public analysis for analysis. I was not certain of it till now, from what the Chairman and.

1910. Mr. BRUES.—I am only stating my belieft— I date say it is quite right. I can easily find out.

Juny, does there inpear to be inny resion why advantage their disc bet within of him shift! sometime the quality of this water 1—Cottanly 1; I shall see about it. 1213. Bit Juny Ne Karamer. Doys think that the inhabitant of the town wealt be dispected to only for inhabitant of the town wealt be dispected to only of the samiley condition of the town 1—I habites day word he very larger to so it demand, to prevent that here are the properties of the town of the condition of the town even though who have in the western properties of the samiley condition of the town even though who have in the western the same than the same than

ther was abliged to tenath, in a very crowded state, which in Radfm very bad.

1922. In your report of February, 1883, you add the nomes of feety four persons who had to leave their bouns 1—feet, I would know zone of the names again RI hand them. Then bouns abangs complete printy often. They are a serie of teleging became—the

printy 0000. They are a seried it ledging became—the occupium are been to day and goes next week. 1233. Colonal Camera—is there anything elso yes wish to excito to the Germanica — Yes My scarce appears in the subdule in reference to some lead. How have returned me as baving land blooded and hipared to the extent of 279 acres. I know all my Property very well, and I extent exceedly now that that

secure of hard is at all injured. They steam no se having had thoseld to the extent of 197 secre 2 roots, as all lead inpured 188 serves 1 root, nesking in all 319 pt. serves 3 roots. I must say that I can not at all issues of secret. I must say that I can not at all issues of secret the serves a root the serves.

of having 197 areas fooded, and I don't see how they can take out the screage.

1224. Mr. Burns, "Then what do you say with regard to the measter inferred "Then market highered you see it set down at 183 area, and I don't think there is that sacched at 31. Of oursel I area conveyed to the second to the second

se valuator arrived at the figures he has put down in se schedule, I connot say. 1824. Bet, perhaps you are speaking of 199 Lish rost—I am. 1826. Ob. but these one staints arres that are und

1226. Oh, but these are statute acres that are protdown in the achains t—I beg your parden, I did not know that. 1227. Yaking that view of the figures set down

hre—no statute area have you may reason to believe that the ancest is ornerisable.—Well, even staking these as obtated sores, I thinks no. 1228. But shows 1930 Itish sares would, I famy, be very resulty 197 statute amost—Eus, but I deter very resulty 197 statute amost—Eus, but I deter besides. There is lat of I talk then very high, and none of it the flood could rover get near at all. The figures repear to use to be large, but I may be vrong, figures repear to use to be large, but I may be vrong.

figures appear to me to be large, and I may be wrong.

1239. Sie Journ M'Kimitin.—Here you oeen large in magal.—No, I have not bed times to see any of these,

I have heen so been.

1230. Well, that in the only guide you could have
in this matter!—I don't ensetly understand what
might be mosent by the worsh "ingured hards."

might be most by the works "regard large".

1931. They man hank not petually whiteet to
1935, but still not having a sufficient worful to sarry
off the superstandant water!—There is a good shad
of land of mine fifty that. I am anxious to know
something with regard to the means of increasion
than another, that is with reference to the tax to be

I has master, that in with reference to the tax to be put on the landled. Will it be put on the fiscaled or line on the injured taxi, or upon both?

1215. The hands are devided into lets by the value of the condeng to their quality and injury, and he put in the put of the pu

page yets certain obarges, for improvement upon cook of those lots. He has shraide yets had into digital lots of the page of the page of the page of the page of the lots of left energy of the prospective improvement for chair is not left energy to the prospective improvement for chair is not left energy to the page of the lots of left energy are all proud.

LESS, I will be on the land to the lots, a fixed is not less than the latter of the latter of left energy are all proud.

taking is an a whole; taking it are a veryes, offer thity the confidentian of the small divisions.—Will the healthed to transit have to pay—is it known now who will have to pay.—is the known now who jets.—If have none of that hand in my posnot tession at all, sweep about thirty noise, and the

any periodic was will be consistent and in finishing west. Therefore, I would not like to pay for an incroverement who that I would get no benefit from. I would not be also up it any more rust from the tenants, nor am I know that the birthy to sak them for any more.

1255. We see not in a position to survey that personals, but you may complet this—birth per restate operation, but you may complet this—birth per restate.

only the we know, that it won't exceed the amount set down in the schedule which you have in your hand.

1216. Mr. Broux.—Naturally, the taxation would not exceed the heartst which would be derived, and if the valuator mys the brasist will be such a figure, you may take it that the tax could not exceed

that amount; but whether the incidence of that taxua matter to be determined afterwards by the authorities....we are to make inquiries, learn opiniona, but it is not our presence to make the 00000001—Loudy asked the quantum fee my own information.

1537. Ber Jone M'Kanzar —I suppose you know your own property pretty wall—Li do.

1238. Well, do you think five oldflings an occe would be in carees of the boundt that you would

1230 No. per sere -at the rate of five chillings ner nere. There are 197 acres flooded, and 149 are eight at five shillings and sexpence !-- Well, as regards the 197 acres flooded, I think at the rate of

skillings as age it would be very well worth that,

1240. You mean the relief would be worth that !-

1241. Then, as reguds the other land which is saturated, injured, and for which an outful will be provided to permit of thorough drawings; that too is about three shillings an age for improvement, would you think that a reasonable amount of ingresso in is will be to the individuals who rent the lands. 1242 No matter who derives the benefit, would the improvement be weeth that 1-I believe it would. 1 are pulse satisfied of it. Some of these tenants how

Vr 84nBagton

Mr. Skolfooten South extrapolard.

1348, Mr. BRURS.-Do you wish to make a statement, Mr. Smythet-Yes, I merely wish to say a county-Newtown-which, as I remorked the other day, is returned on the schedule as belonging to Lord Downshire, but which is mins. When spenking of the area of the fooded and mountd lands, the other day, I was under a misapperhension. I have eare-fully sens into the matter since, and I think the applotment made by the surveyor is approximately correct I have nothing more to say on to that. Then, returned as Lord Protarington's, but it is in my possession. With respect to No. 16.—Kilimere, un the Queen's county, yet will find it on Map 1.—it is rest down as belonging to Educad R. Smith, the lying to the left hand note of the couch road, certing Monosterevan-now, that is not immed at all it is considerably above the level of the Burrow, and

in addition. I, some years ego, sunk a very large drain of the road. Driving by it this morning, I saw tire erops of outs, barley, turnipe, and pototoes. Then, I should like to have the opinion of the Enginter, as to whether that land on the other side of the road is 1244. But as regards the left-hand side of the road as you come towards Monnaterevan, you think that ought to be excluded !-- I think it ought to be an-

1245. Is it coloured on the man !- It is coloured on the map as Injured.

1246. Dues the back-water of the Burrow ever come up to that !- No, the back-water of the Burery never men up to the read at all 1247. Will you point out to Mr. Penny the land to which you refer, and he will take a note of it?-Yes (Witness pointed out the lands in question on the

Mr. William Gifferpie examined.

Mr. William

1248. Mr. Bauen.-Do you wish to give the Coas Magan for whom I propose to give evalence. I can the agent on the estate and I have some witnesses bers to examine. Possibly you will allow use to sold stated to require improvement and drainings on Miss Mazen's estate. New in these particular places a loss has been approved already by one seem.
Works, under the improvement powers given to them for dramage, and not only for that area but something more at present will be removed. She is also of opinion by the Beard of Works, and approved of by their completely draining her hand is less than one winth of the cost estimated in your schoolsle.

1249. Have you may objection to give the figure? -None whatever-I am going to head you in a report

altogether, and by diverting that water it reaches the Barron in a different direction—for it runs through has more channel stein to the statepens of Despotation has morie below it. Instead of letting the water fall diffusely over the whole place it is proposed to account it direct into the Barrow and so retire that family in a house at that place is constantly driven the object I have in speaking to you about this is to show that the works contemplated by Miss which your Engineer has everlooked. Hiss Magan, I a large treet of land which fell into the late owner's they want to the expense of making an excavation they were tempted to fill in that excuration and put piper in it for the perpens of bringing the water peper in it for the purpose of terriging the water to cattle. Now these paper have become broken and verfectly nucleus. I messly mention this to show that a quester of a century ago bringing the water of to the direction I have parred was a contrambiled ireprovement by the tenunts. Advantage has been taken expecty of the tensate. Miss Magan bears the whole cast, and does not ask the tenants to pay saything that is to be made in continuation in a straight line years ago, so that the water, instead of teaveiling round in various channels, will run direct, and one of the effects will be to make the channel dankerye place. You will got evidence presently that the water notwithstanding the small rainfell, the water was at is to above that a far mose effective remedy for the conting state of things has been provided at the critistic expense of the leadings than is proposed by more; this place to eight tuffes from the mouth of that fall over the seven railes, it is perfectly

a sum is put down as the improvement value of bog prove. If you get the torf further you will only make a lake, and there is no possible outlet for the water. I see in regard to this bog, your engineer points out certain places marked blue as ficoded. I may tell you that that is right in the raddle of the 1210 Str John M'KERLIE -The engineer marks a good deal more as flooded than you say in 1-Not that I

the cut, and that the water went another way alto-getter. He may have believed that it went in the ordinary basis of the district. m acting, and the land is kept perfectly day. I had Mr. Hade, the officer of the Board of Works, over there within the last fortnight, and we setnally walked in the bed of the old stream. 1952. Colonel Canons.—When was that out made t

-Some years ago. It is a pretion of our work as to clear st cut-of has got silted up a good deal. The Mr. William whole watershol of that bog, I should state runs offense. as your plans indicate. Where does it run into !- It runs into the

stream which drains all that district, and instead of going out at the end of the lands of Kffboggen it goes form about four rolles before it loses the river

1354. But eventually does it fall into the Barrow ! 1255. Sir Jose M'Kuttin.—It tune into the Nursey strong I think!—Yes

1256. And that runs into the Borrow !-Yea. 1257. The Nerroy stream was opened some years sgol--Yes. 1258. And you take advantage of the drainage made there by the Duke of Leanter 1—You. 1209 Which was corried out as a district arterial dranaget-Yes And you will find His Grace's property is whate on the map became he did that

for doing it 1980. Our you point out on the man and define the

1261. This matter must be referred to the engineer the whole cost of the work, and does not sak her tenants for a contribution of one pump-why the wome treatment should not be accorded to her at one side of the fence as was accorded to His Sense the done you leave out his coase; we chare the like treatment for a like case. When I consider that report on land improvable, and find that in his prolike £10,000. Now we man do the whole of this work outle as effectively in our own way for £1,000, and should be asked to come under the wing of your suberne, 1262. Do your remerks apply to the lands in

tioned in the schedule !-- My remarks apply to all the lands, and I brought the official paper Duke of Leinster, and he very kindly primitted the witerabed of Brombills bog to be altered by a channel you. You see on the maps the places I indicate-I soquently a large stream which termenly came into the exact point where the distingue course in is not this watershed, now ones another way. Independ that mirror things. Borne years any the Marquits of Droghods mode a straight occurse) in his land of prizing straight out would be prejudicial to his locathin's know, and he has got the Board of Works to assent to his request to assigned our works for the present. I offered the Marques of Drogheds, on the part of Miss Marun. years, high banks have been formed by the nilting up of the current which is very strong, and these banks are now from nine inches to a foot above the summer level of the water which trickles in a narrow stroam between the banks. I shall refer to effer matters later on.

Mr. Rackard

1963. You are the stoward on Miss Magan's pro-

1267. What is the name of the stream we have been speaking of !- I think it is the Finnery river.

1269. What is the width of the new shannel which

the Macquis of Deogheds made some years ago i-About twelve feet 1267. In it not more than twelve fact?-- I should 1268. I think it is nearly a perch!-It might have

1269. Would it be a fair representation to say that the banks are mine inches or a fort over the water!-They My. 1970 Mr. Barres in When you much of banks.

what do you mean.

1271. Mr. Gerametr.—The deposit made in the bed the river. Owing to the neglect of keeping it element can recumed to be the width stated, but it is now reduced to the state I tell you. I now offer oridence that where no works are contemplated by

your scheme—in one of the worst places in the dis-(To witness)-Dogree know Calleghou's bress, at Kilbogon Ceust !- I do. 1972. Did you ever see the water in that horse !-I did, often 1275. Did you ever see the water on the road there! -I did.

1974. In that a constant occurrence there !-- Constant. At a time there is any rain at all, the whole of that place is covered with water. 1975. Does the water come under the culvert from the land on the opposite side !-- It does. 1276. If a peoper culvert was made at the end of that road at Callaghan's, would the water semain there !- It would not, it would go into the river.

1277. Are you aware that that is the line for imroving the lands there, approved of by the Board of 1978, Mr. Bauss.-The Figurer river, of which you spoke yest new, and which you say to fifteen feet wide, to what depth was that sunk-what is the depth beneath the nurface of the land !-- I should now

it is about five or six feek.

Mr. Thomas

1351. You have been living a long time at Kilboggen cross-rough !-- I have for swenty-neven years, and my house is fromently flooded 1989. What is the greatest depth of water you have seen in your house !- I have seen thirteen mehes of

1593. Was the water in your house last winter !-Not lead winter. It came up to the threshold of the door lead winter, but did not come into the house.

Mr. Gillonic's sant

age. There is a reggestion in the preliminary report that the owners of the leads on which there are gubsidnery streams, should send in suggestions. I don't know how far it may be ultimately decided, that the people having lands at the higher levels are to pay for

the lower levels. But in the event of such a course

diration revenued.

being adopted, I submit these is one line of exame ation which, so far as there is any evidence before the public, has been altogether overlooked. It has been that to deal with a river merely as the orthot for a lance estchment busin, in pot the most odvisable was of going to work. The first thing is to reduce the sideration of the Commissioners. It will be for the

1279. And that blue muck which was shown up on the sketch, represents the water in summer trickling

1289. In winter done the food water cover the 1281. Does it ever come above the banks !-- It does

river !-- From one bridge to the other it is about one 1983. Str Jone M'Kesane,-The drainings which very have proken of-that was a local divinage under the Land Improvement Acts-was \$4 not 1-I don't

1284. Mr. Gallarrin.—The drainings is contined to the pince 1.—Yes; part of that stream forms the beggingsy between Hoss Magan's land, and the Mar-

1985. Sar Jones M'Kennan .-- What is the number of the map which shows the cut the Marenia of

Mr. Gazzerra -Sheet 31. 1285. Colonel Gazzer, --How is that flooded land not included in the application made to the Board of Works. It is included !-- I told you it is all Miss Magan's land within the vallow lines.

1387. But I am speaking of the flooded place year Mr. Gransvers.—Well. I made application on behalf application of owners of particular lands. I offered

Mr. Hervey to go to the expense of eleming out Lord 1288. Our you tell me is that piace flooded new !-

1289. And do you wish to have the land then elieved of water? 1992. Colonel Canton,—have any or made as regards that place?

Mr. Gullerne.—That is included, and saything the day. We have green

to much expense; we tried to got the Marquis of Droghesis to agree to have a completely where sheet there instead of a blue-size, but nothing would please him.

Mr. Thomas Soot (Sub-agent to Lord Droghada).—
On behalf of Mr. Harvey, I must object to that

Thomas Colleghon exagined by Mr. Gitzmerin. 1294. Did you over see the water on the road !-

> 1250 Does that water come from the kinds of 1294. Mr. Brogs.—From where 1—From Min Magan's leads. There is a gripe which leads to the guild under the cross roads, and the gullet is not sufferent to take the water off.

1297. Mr. Gallettin .- There are deep dykes along the read, and there is a culvert under the read, but it is not at all adequate. Perform of the work we intend doing in to sink that place, and put a culvest there which will be seven foot desper than the present one,

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the lines I suggest, in order to give public satisfactors. West she permanent of the Commissioners. I will read concentring them about which you might like to sak

"In the matter of the proposed arterial dmirage of the Barrow rever—there having been no successor in the pra-hearanty report, to say other method of effectually relov-ing the Barrow basis thus thought, but by enlarging the carrying peers of the inter Scotl, it is asserted the engineer corplayed must have been limited by his metroc-

existing bed of the river. East of Enthropes the recovation through the past being that intervent relevance that town and L knopwers should be of varying depicts, and first should the transpire of the past of t

outdonests where it will so to farm, and one was seen and found more computed to summing and apportungen them their the Commissioner's Engineer, Mr. Marcing, should it be de-med advisable to irrestingute the quantum pressionally, and the Occanisationer's think will of referring the mater to these South of the water me disabilitying into the Espetales. Some of the water new flashinging into the Espetales. him. Some of the water near discharging from the Byers would be carried to the Lifety, but increming the whose of the Lifety by the source of the Lifety by the second of the Lifety by the second control of the Lifety by the order of the Lifety by the Lifety by the Lifety by the station of the Lifety by the Lifety by the Lifety by the in moving cut to see the Darkin seeings, thus now received in moving cut to see the Darkin seeings, then now received the Lifety by the Lifety of having lend to come before the Conscisioners in again for Will Adaptin, whose crisis was reproced to be lendadd in These engreations are nonemphased by a mop on chich Miss Magan's property is coloured yellow,

(Honded in decements) 1216. Sir Jone M'Kerzer,—You refer to a report the whole district !- I refer to the preliminary report

of Mr. Manning, which I have here (showing newspaper cottings.

1230, That is a departmental menorusdum uni-nisted to she Treasury i.—He states in it that he is proporting Forrow distance plans, and he mentions the various considerations involved. I teld you that the Marquis of Dropheds objected to Miss Magazgoing on with the perposed works, and the rarelt is that the Board of Works has for the present su-pended them. Here is a letter which I have received.

4 Long 12,844. "Office of Public Works, Dublis, " 15th June, 1885. "Ser-I on directed to inform you that is consequence of reports made on the part of the Marquis of Drogheds, the Based consider is admable to stay proceedings is respect to the loan, and it will therefore be unnecessary for the present for Willer Margan to excent each bond seat born. The

Board will instruct as officer to presend to the hands and Ady 70, 1940. report on the points in dispose. The Board's decision will be communicated in discourse. Meanwalls, of course we were will be executed. By order of the Board.—W. R.

1350 Mr. Barres —I should like to ask you have at lean been proced —Yes, for \$500.

1501. Has not there been an arrest of the pro-

objection was made. I could get no information on

1868. It is quite possible that what you mean is, the menitudeurs were approved of 1.—No, the loan

Here it a letter dated May, 1885 :-"I am directed, for year information and guidance, to and you the accompanying copies of the report, estimates, specifications, and plan of the proposed works on Min Magna a property, as approved of by the Commissioners."

That is movely that the report, estimates, specifications, and plans have been approved of 8-They approved of everything, and they sent me the bond

1304. Sir Jone M'Eszars.-I want to know whether your election is to say part of Miss Mangaria property being included in this general scheme !-

1305. Because you can do the work yourself 1.- Yes 1706. Do yoz with the whole of her property to be excluded b-Yer I should tell you that should anything occur to prevent as carrying out this work, ner can it do no in the nature of things, because the principal part as left out.
1307. You refer to a further improvement after

the arterial dramage is carried out—to the execution of private therough dramage works 1—No; what I above to is, that no recommon has been made, for instance, to meet the case of that man Callaghan, who was exemined here, and who has been suffering from floods for the past twenty-five years. There is no provision made in your scheme for relieving the difficulty that that nom and his landlard labour tracker, nor for some others 1306. Mr. Hamann.—But you connot tell that

from your map. The Engineer of the Board of Works may have contemplated sinking that place and building another cultured—If you know the locality bailing another current — If you know the techniques I know it, you would be aware that there is no apportunity given for doing that—you would know that it could not be dame—and, therefore, the engineer very winely avoided it. The works he proposes in this scheme would have no effect on that

results, or proposed works.

1350. Sir Jone M.K. same. —How do you know the works he proposed !- Sharply from the maps before un 1310. But they don't show the works-they show the lands proposed to be relieved !-We'l, if you look to the spot in question you will see there is only about

door, and snything you could do within that space without having this new out would be perfectly neeless in removing such a depth of water 1311. I have no doubt the engineer has fully provided for the relief of all the bands which are now

are on the part of the public !— Excuse me, he makes no provision whatever for %, nor does be profess to do

as by his plans.

1312 Dan't be once—you don't know what he has provided for t—I am mure of it. 1513, Mr. Hamann.—The effect of that private 62

Mr Officers

dritings which you propose on the part of Miss Magan will, of course, be to send the water down quarker on the lower proprietors 1—Yes Mr. Scoper,—That is Mr. Harray's objection. all follow that sending down the remainder more

quickly will inpure the leads below.

1815—Mr. Hanana—We will pees from ibed.
Ton stated that the new watercourse which the
Marquar of Droghods made below Mine Magazie

property has been allowed to selt up from neglect -1316. If these works were carried out here and there by itselated properties, would not the name objection apply—would not the name thing occur aguin-and don't you think that the maintenance of

-No. I am a member of two drainage boards, and I am not prepared to say that.

1317. Mn Bauss.—But this scheme which Muss Magan proposes in not under a dramage board at all. -Certainly not; but what I say is this, we will reaks

the cut, we will clear out the existing one, and we will a select this new Callarbun's ulass. Whether you the con, we will then see an extension whether you take the water round or direct, it will discharge at the 1318 Mr. Hamann -- But 2' the proprietors below the lands he flooded I-Bat we happen to be on such a

lovel that we have the mastery.

1319. Mr. Thomas Scatt —The water weakl comyou may divert the water the result would be that ofti. mately it would come in on the Marquis's lands again and sayare them. First it is proposed to accourate the waters, but these may come together again from

1310 Mr. Gillepin-We don't put it back; we merely put it where R always was Mr. Scott-But you are making a new abscured in the Nursey river, and ofter it peaces Cherry Mills, on the old Finnery, it yours it again, and comes in on Lord

Drogboth's property. 1521. Mr. Walham Persoksyle.—I appear here for Mr. Arthur Robert Vemeksyle, whose lands are very much injured at present, but if this out were 1353. Mr. Bauer.—Your evolence is that the pro-posed new cut which Mr. Gillergae has been referring having an exception from this scherge. Some years ago we had a proposed plan to cashook this stream, and sink it, down the whale way to the rwar, but there it no outfull into the Barrow.

which would send the floods down quicker than they which would sum the moon down quictor than they come at present, without an outfull—Yes. 1394. And I believe you took professional advice on this !—Yes, we did. It would cont as £1,800 w.

these upper waters comes on us 1325 Mr. Casseny, But if the main river was distinct you my it would not be so injurious to you t Yes, that is if we were brought within the scheen.

1326. Mr. Berrus -- You don't approve of Mr. Officepie's scheme !- No. It would do an immenso

1337. You see in the scholale the amount of lands 1328. Are they correct!-I think there is an econo-

of bog. 1329. In what townloads !-- Kitherry and Cleary. They are thoroughly drained at present, at least the 1320. You have already a drain these 1-Yes, the

bog m theroughly drained at present 133). What full have you into the Berrow 1-06. 1332. Colonel Campan -Are you able to not down water, but still the people one balo the water out 1832. Mr. Baues .- In our acholide the amount of hand stated to be rejured in Kilberry is 518 terry 3 rooks the same in Cloney. At present there see a number of houses fooded in the same way as Mr Gillespin result of the atrught out made by the Duke of

Very much worse!--Very much worse 1316. That is the Narmey river you refer to 1-1336 Omitting the bog, there would be 568 arren of bluow doaley barrier bare belook won stutute \$111, or something about 4s, on sore. I suppose you

1337. There is stated to be 642 arms of deep box would be about &s. an occ. What do you think of

that 1—That would be very fair.

1338. Mr. 6Wepic.—With reference to the question 1318. Mr. Hamann.-Do you object to snything

Mr. James Stenget Kinesid examined.

1859. Mr. Berryy,-Have you some observations to offer us, Mr. Kunned !- Yes. I wish to give evidence on behalf of Mins Plenting, who is the peopeleteress and Derrytes. The quantity of had proposed to be improved in very large—800 auros. It is perhaps the imperved in very nego-sou area. It is persup, the largest in proportion to the extent of the estate that you have. The greater partons of the lands are reper-sented to be imbit to flooding. The flooded and superved seres are alleged to be injured by floods, but not I bare to object to the sees, for I am informed

that 712 acree are not at any time flooded. I shall point out, by and by, the locality to Mr Penny That, some years ago a loan was got from the Board of Works, and private measy was expended healdes what was borrowed from the Essent of Works, for the perpose of cusbenking this large area of land A very effecsiderable distance, probably about two and a half miles. There is a charge on the hads sail for a perion of that outley. This entankment been meet offictive in protecting the lands from fleeds; and I would submet that that being the case hasin, all of which ought to hear some proportion of who, seen

is no doubt that the level of the hads world lead an engineer to suppose that they would be liable to floods, and they were hable to floods, at one time, and the lands on the opposite side of the river are still lighte to floods; but those lands of Mus Floreing's have at considerable expense. They paid for that increavewent, and they count to be allowed at all events, some proportion of the sascomicat, which is very heavy in-In some I see the propractors have actually succeeded in getting their lands expluded alsogether from the the solution, and it may be sufficiently affective for then own purposes. I submit that that would be if they are catalled to be excluded altogether the nowalcade of Derrytes and Aughrin are entitled to be given some consideration for the week which has on done upon them for relieving them from fleods. From what has passed here I would like to make an observation with regard to the general question of sessement of the lands in the area. I am aveself a Trustee of some Drainuse Boards, and also have had a good deal of experience on many catatas in different to which they were benefited. They distinctly repertod that the taxotion should extend considerably However, I would sawane that you are going here to with almost every river—and that you take even a that the principle there laid down should be carried entire water-shed of each river, that as, as regards the maintenance of the main water way. I would my that the water way. In cases, of course, where the natural -one charge to be for the maintenance of the waterway and one special charge for such districts as the Duke respected by the owners, throw their water into the right of free purage for the water down to the sen; but then they should assintan that highway for the water in a proper condition. It is the tendency, I think, of one captab of the area of the whole of the hand of the

we should not be charged an assessment as if the lands

the cost of marstanning the public water way to the see. Mr. June rates -- a public rate for the whole locality and another Knewt. would charge a rate for maintaining the water way land-and another rate for the lands setually ire proved. If the evidence of that very valuable comhand evidence is given that all the hands which omtribute to the fall of water should contribute a portion of the cost. The weight of evidence is, that which they theenselves use and require to use, and if they use the water way they are bound to sadet in keeping at in order. There is snother consideration which impressor me even more strengly. It is not proposed to tax the upper lands at all, which is clearly declayation in some of the mountains the seil lossens contralistors to the eletroptions caused by the floods. there and descends at a rand rate—they have a needed also send what they have no right to send down, that in the debrie and silt; and certainly if they tought to contribute towards a general meintenance rate in respect of the water which passes over the general water-way, how much more have we a right to damazed that they should contribute towards removing those towards the cost of keeping the water-way in repair? I think that argument is unconversible. In France. the demaga done by the upper waters descending from steen mountain sides in so serious that works of a very on the mountain risios, where there is no drainage by the floods from the ball states in the direction of the provent this they have to creek burriendes us the nountain slopes at great expense. Those works are done by the different sommunes and assessed on the entire area. In Iraland, a more level country, the much and year to year, therefore it is not threight necessary to sweet these formidable works in the upper reaches of the rivers; but certainly the same principle ensumter the missilef done by the gravel and delvis brought down from those higher lands the cost of them should certainly be should by the leads which create the mischief. That I submit is snother argument in too means. This is soon is sooner argument in favour of a general maintenance rate. Of course the rate should be a very medicate one, which would vary according to the valuation of the land and, perhaps also arearding to the some, or level, on which it lies It mucht vary perbura from Iol to Le, an agen or something of that kind, averaging possibly 6d, an age. But if you charge that over the whole area-eigh. times that at present proposed to be assessed-it would come to a very considerable sum. As I stated hefyre, I believe the quantity of lead at present assessed as Athy up. If the course I suggest were earsted out a very considerable sum would be contributed, and fairly and properly and justly contributed by those lands which contribute to the misshief that is done. New, the stal estimate for this work is very large indeed, so large valuable the work might be, it would not pay, and that

 $^{\circ}$ Report from the Select Councilities of the House of Lords on Conversacy Bouch, So., Sith July, 1877.

Kr Junes

being too couly you would have to navmore then 20% in the pound for it. Thus is the one of you needly assess the lands which are to be divortly benefited by the dramage, and don't hold all those hands liable which contribute to the muchicf. If you seaces upon all the leads that contribute to that mischned, or that are within the estebment basis, a general rate for marriagining the waterway, than I think you will be able to reduce

the assumment on the other lands to a sum that perhaps would easile the work to pay. I am quite prepared to atsoft, with regard to the lands on Miss Flexing's cotage, that a very considerable assessment might be made, but, as I have moutismed, not so much as is assessed in the schedule which, owing to the circumstances I have mentioned it more than a fair proproportion, but which of course would not be so beavy at all if such a saleme as I suggest were adopted. Then, there are towns also that threak be valuation as I speak of is made-expending the cost of keeping the waterway in order, from the cost of rock cetting and sinking the river to the level which be shared to the towns for the lowering of their charged over the whole area for amproving and making effective the entire waterway. These are the only effective the entire waterway. Those are the only observations which occur to me. But with regard to the sessment of the entire area, I would like to make an exercison which I had rearly frequiter. We all know that-and especially it is the case in the upper reaches of the river-plantations have the effect of delaying the run of the water, and that they portions of the upper hards which are planted might be executed from taxation, and ought to be exempted from taxation - that is the only exception I would

make in the englosed lands 1341, Ser Jone M'KRRIGE.-Do you renerally appears of the energing out of this scheme for the dramage of the Barrow !-- I do, especially if it is carried out in its entirety as a scheme, but if you waterway in order, and keeping it in order, then we should certainly object to that. They may have crected works themselves, as Miss Fleriang has done, and they may cast their waters down on the the waterway at all, they are entitled to pay for the

1342. Have you a personal knowledge of the district

1343. Do you think the sonitory state of the district but I think the population in it is not sufficiently thick to come may serious outlettak of existence from thrule the whole climate would be improved, and that is a very important consideration. The climate would would be improved. With regul to the assessment. there is just one other point I would like to mention ine week from the Board of Works, except for the improvement of their own lands as occupiers; and p is hardly to be supposed that they would like to become even collectors of this proposed distinge rate, although it might be recoursed to them by the tensess be made on the ground that perhaps it would be more politic to make such a great their to cellect a tex from it would be a fair ground for soking the State to one tribute to that catent; but otherwise, I think the entelement bases ought to be able to bear the enters cost, and I would be very sorry to think that # would not pay, for deing the work that is necessary

1344, Mr. Gillopee.-The last witcess mentioned Miss Magaz's property. Now on her port I may my waterway in order, and keeping it in order. She is quite prepared to pay her share of that, with their proportion of the cost for potting the

for dramage purposes.

Mr. James Modllestt enunined.

Mr. James

1345 Mr. Barrer -- Do you wish to say anything? Yes, I wish to say that upon page 6 of the schedule for the county Kukiare, I am improperly described as the owner of property. I are pet flown as the owner of Ardanguas. I am not the owner of Ardanguas.

1846 Do you wish to have that corrected 1-Yea. I am the bear in once the Robertson family dien out of that part of the Medificott estate. Fifty-two Irish seven only , and in the schedule they nave put down 104 statute agree. What I would propose is, that before there is anything caused ont, or any regular travillon made, that all those lands abould be surveyed spain, and that the owners should be surveyed spain, and that the owners should get formal notice to meet the surveyor, or get some the slightest benefit, or could improve it in any way.

tion of his land which is here described as incorred The drams are filled in with broken stone in the ordi-

pary way, and as regards completely decising the place, forty-one seres flooded; well I don't believe there ever was a part of that flooded. There is a river running there, is in the meaning between the Macquis of Deagheda's estate and mine. I due my if that were sunk three would be a better facility for minor drains, but there is none of the land there flooded. I have no doubt that the seventeen saves of injured lands the injured ismis that would be probably improved if

1348. Do I understand you to object to the descripin the schedule as being the owner of a great deal 1349. Your objectsous are being taken down, sad the valuator will have an opportunity of society them

Vr William

1300. Do I understand that when Mr. Ettagerald into this Berrow drainings scheme at all until this day. Adj. 11, 115 test visited the lands you did not get notice 1—No, I work, when I got this notice, that was the first into Mr. James Rowell, Nove Mr. Hall any leads were giving to be taken mattern I had of it.

Mr. William Gausses examined.

1351. Mr. Battett.-For whom do you appear?he gave me those papers and asked me to attend the tes lived agent for some years, and I wish to make one or two remerics as regards the estate and the per-cipaline in the schedule. Now, in Carrighill Lower but that it belongs to Miss Kennedy. Upon Calventewn Major Burrowce lately expended about #200

arongety. Might I sok at whose expense are the injutaries to be worked or earried up from the main

1352. What is the same of the tributary in this instance !- It is a stream with two mills upon it-the Tuppons nell and the Bellyshannon mill, both flour nulls. It is the same stream that Mr. Mediaott has

form mart of the whole scheme, according to the intention. of the engineer 1-Some two or three years since Major able expenditure, which they found sufficient for all to his satisfaction without the sail of the Barrow-Judicage scheme. That is to my, he have a sufficient he at a distance of from eight to ten miles from his

delinage to a property lying at a great distance from g, such as Major Borrows, §

Dr. Martin Darby examined.

name t... Yes The town itself is not reached by the 1865. Mr. Breuss.--You have been summoned, I believe, to give evidence hare !-- Yes, I am the medical

1856 Would you kindly give to the Commission your general observations with regard to the condition

the dry worther, when there was less water in the his and purhaps six foot higher than it was on that

1307. The general level of the sewers in the town is so

1388. Owing to the level of the lead in the town being so fow when the floods owns the back water in

selves is so low that the people are able to grow cab bages and potatoes over them. There sowers run 1209. In fact the level of the land door not afferd of the land is size thousand from the water. In order lovel of the land at present. 1360 Does that remark apply to the whole of the 1861. In there may general system of sewerage in the town I—No general system stree the Public Health

1362 What is the ewas of that-is it the difficulty

1363. But if the level of the load and the liability river the land should be razed in fact or the river

1314. Have you netered snything with regard to

belonging to parties hving at a distance in these portions of two small Electoral Divisions of this

Dy Mari Ducks as district, I counted 188 boson flooded—that is on this side of the Parmoy, there if there Goodsteys to Phinary bridge, containing the houses on to Birventows on the right, and Eddingson on the 168, there are 189 horson other flooded themselves or their heats runsdistiply silproraing them are flooded, and of course the damp modes up into them, if they are not actually well by the water.

by the water, 1100 M. Hanana.—Are there not seems house there on the cutaway log 1.—Xes; by cutting away the bog the house so made a great field were, first he water should yearer dangears. The sudding many of the bog in livel neighbourhood is no injury to the entire distant, for the water rooks is severe level.

away of the leg in first neighborhood as an injury to the entire chatrict, for the water reason there lived and as waterial—the waters reason there fully ten months out of the year. 1367. Mr. Sydney Josephys —I wish to make a-

overaction in the saleshile in the Queen's occupy, is only a typic-political error. The crists of visite only a typic-political error. The crists of visicalled Edward MacNeal, representative of Edward mixers, should be Edwards and Wife all, mixer 11668. Mr. BRUEN.—Here you any other corrects to make on the subclude 1.—No, in set of that whels! There is in another whether is substoccipition—thus, but the shields for the Kingle country, page 3, transl-

the property of Colored Guice, and it in the memory of the representative of Mayor Amenteure, There is a very large sees of lead comprised in this coists, as which I am agant under the Cost of Chancery, and there are a number of streams here who wish to be consisted as to the ringer they result in by the floods. Mr. Burnes,—We will be happy to hear any evidence they may what to give.

Mr. Joseph Fennall countred.

Jacob Mr. Berner — Where do you live t—I am an occupior of land in Inclusoodsy. 1370. How much do you hold t—45 scree.

1371. In it much flooded la—Yes, in sums part scenars any corn corps and produce crops seem all covered by the water, and anaethers we used to reason up all slight to make dame on the backet are and the land in order to provent the floods from districting the whale crops 1372. In the whale of year farm subject to flood, mgi—No. These is between 700 and 800 areas in

mg 1—No. There is between 700 and 800 area in the coordinal and there is only 100 areas of it from from footh. 1375. Does the water come into your house t—Not actually into the horses, but it comes does up to it. 1374. Do you think that a great-deal of benefit

would be derived if the river was no make as to relieve you from the floods b-d are, etce it would be a great benefit, for the water remediates does not take its must course—it comes back again.

1375. You would be willing to pay for the benefit that I would be willing to pay for the benefit of the second way.

1910. You would be willing to pay for the benefit data, I rappose — You, if if was not too high. If it was too high we would not be able to pay.

1970. What blind of bend in it that is flooded—in it bettom had that grows meadow on b—Bottom had that grows meadow on b—Bottom had that grows readow on b—Bottom had that rows readow on bastone.

1377. You get buy from it sometimes t.—Yes, some seasons. 1378. Good mendow?—Ne, a very light evep, from 17 ovt to 18 ovt an now, sometimes less 1379. In it gravelly soil!—Ne, study soil. These

are two revers running round the townshird.

1890, How many areas of your hand de you may new
flooded 1—About 28.

1891, Mr. Sifetey Jennings—I am prepared to
narrow may quantities you wish to put for me through
those loads. There was 1,3193 occes in Enchanceive
flooded, said the desirection of even upon it is dreadful.
The water may aver the prifting of the land, is in 4 feet.

acrosses done in the Biske Bizzer, which discharges itselfists in 1862. Here you elearwed that the dissinger of that distinct has merosced the Books'—Certainly, it has necessate both the volume of the water and the republic with which it comes down. These one, with some orceptions, good lands' there is a great depth of allivail

continuing good leader where the same years make acception, good leader where the same polymer to design of all axis mail; some at them for on a name polymer to design and a gravedly bettom, and I have no dought that any tang that seed the done to keep the finds of rev even to make the personne getting their crops are to talked a therough realment at all, would be most advantageous, a three-open realment at all, would be most advantageous, and the same and

value of the improvement as you taken that the value of the improvement as you down in the subshill is a fair value for the townland 1—I am quite sure it is—if the value would not be more. It is hard to say what would be the value of the crops totally last. 1884 Mr. Hanasan.—Tou thruk it passable das the unpreviouslest would be ever greater 1—4 think ma. for three would be a settleinty than of gating a conafter the burg sows. It for core years the crops we neath more incurrant than at persons, and then is seconded for by the prester second of the shoot, the recommend for the present consult of the shoot, the present length of the present security of the of time that they records on the laid. 1385. It will need at the purction of the State river

as the mixture product to the 1900.

1355. Is this hook at the junction of the Slite rivers and the Pijde river? No—the junction is married to read the Pijde river? No—the junction is married to more. The hook invo one of at many left, the Shade round can justice of it shad the Barrow at the other. The overstand of United the very month floodies. The overstand of Lind Involve Involve the October 1901 and the Involve of the Shade Shade Involve the Involve of the October 1901 and Involve Involve (as the Involve of the Involve o

certain outline. Hence —On the whole you think that the shades would be very beneficial and is the full acceptant, if not more than what is not down in the schools!—I do, must vinestratively. If mornthing it not done I do not know what to say show the larged because the innerthing to grifting in the corps in completely dishourtening the people, not they use of supplies of the completely dishourtening the people, not they use gooding outle infillement as to whether they had the

getting quite insurement as to weather they hald the land or rat.

1307. Mr. Hanakan.—It is growing bed grasser!

14 in becoming much worse them in furgray yeas with the second of the second of the second of the indeed, the different from what it used to be a farmer years, when catalit sund to be furtured upon odjetting lands of a similar quality.

1308. Do you think it would be fair to impose

men digital con in the six man beginning to the six man by the six man beginning to the six man begin

Mr Thomas

a public wall in the town having been analyzed by parenties of wills and composis in the town-one the compool is higher than the wells, and I don't

lines how the people compe being poisoned 1889, Sor Jone M'Kuntz-Do you meen to say

should cost to be officeedly done. In the report of the

1391, Mr. Batter -- I think this has nothing to do July 23, 2412

1392. We extract go into these matters—they have nothing to may to our inquery.1—Well them, I can speak about the atmombasic effects of the doodgar in Portselington. I recently, so I tell you, more over I have known houses there alle since the year 1979, and a gentleman when asked to take one of those bouses, so far from paying any rest for it cand, "be weakl not take #300 a year to live an it. After the flood has spring the pump water became stinking although before the flood we could drink it. Even river m not able to enery off the newage. I notice by the papers that these have been 1,761 deaths from cholera in Smin, but Sunday-that is a nice state of things for consideration here when we are dealing with the town of Portsrington. Then we have cases of that there is a fifthy open sower at the rere of the

you that His Grass laving fixed rests for the next fiftee 1393 Mr. Baums .- Have was some information to

1394. Do you object to the minety-one acres that

ny property with him. 1907. Have you say objection to the area of farty

1508. You are aware that in this schedule the

1(0). Now looking at the Kildare portion of the 1401 What do you my as to the value of the pro-pond improvement?—I think it is too high. I could

not afferd to pay it. My most in the tampland is only 200 s year, and then are manly 160 acres and they shape me 235 for a portion. 1402 The present value of the land is set down at 1400. Sir John M'Kamar.—Is it too little or too

work!-...It is too much. The flooded part is too 1094, Mr. Punny .-- I have received the following

"18, Lower Dominick street, Dublin. 16th July, 1883. "Draw Sin -In reference to the schedule of some to

Mr. Thomas Soot, examined

years by meteral agreement with most of his tenants, went dockes to perficipate in the solerne proposed, unless the tenants meteralic to pay the assument

1605. I have also received the following letters --"Mount Lucas, Philipatows, "July 18, 1893. rears ago, at goost expense, curried out certain weeks see continued to the showe-necrolesed achievable. I may necessary that I should appear as repaired owner of the heads of Drumena, Estering, and the, at least, greater part of Bullycon-page 4 of achievable.

"I see, sir, your obeliestle. "R. M. Baxa.

"The Secretary *Barror Drainage Commission." " Extracts Office

July 51, 1860

1906

Ecrose drainage subme, on the presseds that the leadmanner receive any betteff at each a distance. No La, Tundes appended served business on that portion of the restorie findings, some years under "I am, day your obselts arread," P. J. N. Pener. Kan. Secretary."

J. N. Chan.

Mr. William Hopkins examined.

Mr. Wilson

1607. Mr. Billis.—De yes desire in gree seridence [--Yes] ; I appear on behalf of mp felter.

Thinks in Bioch Bill ; appear on behalf of mp felter.

Thinks in Bioch Bill ; and be convey of Killer by
behalf adjects to the sunsers of hard yet down as

quity were. There is a good deaf of the hard deep
beg-dirty seem,—and he caneler that he had the
beg-dirty seem,—and he caneler that he had the
beg-dirty seem,—and he canelers that he had the
beg-dirty seem that he had the
beg-dirty seem,—and he canelers that he had the
beg-dirty seem,—and he canelers that he had the
beg-dirty seem,—and he canelers that he had the
beg-dirty seem that he had the
b

hands —Yes, the whole of Black Hall is to les. hands 1809. Bet I suppose it is a much beggs area than is comparised in the scholable—There are \$99 series in

the tornhand, I blinik.
1810. Abset how much of the hand do you estimate
is now injured by water5—About eighter area, I
thank, that could be improved.
1811. Eighty statute accest—Yes; and my father
considers be one improve that hand bimostf; and I
delpted as the shalff see he inceptif since this wate.

Mr. John Culles executard.

1821. This rate Bullytolius, he my relatingments and language and the Tail and 127 series in Earlies and 127 series in Earlies and 127 series in Earlies 127 series in Earlies 127 series in 126 days for the Tail and the Tail an

discussion of those lated sufficient formula benefit for proportion foods; and office the control of the contro

change as proposed upon the leads, and that no one

would suffer more than the handlord of Inchescody of such a high perentings is adopted. The same world apply to Beryles, though I have nothing to do with that, but I here as goods experience as my man have as to the effect of durings and the effect of cultivation.

1814. Mr. Barres,—Have you over lost any of

1814. Mr. Barres.—Have you ever lost any of your copes. No. 5; I saver he say, compty days arree which are not protected by the embalances, but in near part these eight seres would not be worth two panes an arre, owing to the flood lawing job of them. The remainder of my helding was all posteted by the embalances creeded them ever 100 years ago.

1815. Have yee booked at the detailed may to set ff trees than eight areas of your load it in the data.

If twee them, an oph news of your bank is finished as property of the property of the property of the property of the property on Nr. Frenchen to fix up sent for us, and I surgests to be 100 to intent all them there, but I want to say to 11r. Jennings then if myshing like what as strict lizer to be the proposed thermout rates, one fourth, part of th, is put upon Inchescally I will have not been supported by the property of the property of Nr. Jennish and the property of the property of Nr. Jennish and the property of the property of that if some more tensates of this shew would come as and give evidence out outprove their printing, it would

So wand to give evidence at all. It would be well that you intrinsted that you would be vestly to bear any tomants who come forward. The one which this gentleman her just made at the case I much the weald be most valuable to get more wincomes of that does.

Mr. Dorger, It should be clearly melocated that

then.

Mr. Barrac.—It should be clearly understood that
we are quite ready to hear any evaluate that may be
toofered to us
Mr. Jenselseu.—These seems to be some minappir-

m herein as regards the record column of year box with regard to the naproved value. The people oppose ye think that their is to be the state that is no be imposed.

"The heat column in the absolute is often yellow probable increments of the process around value to the probable increments of the process around value to the probable increments of the property around value to the probable increments of the property around value to the column of the property around the property around the whole property around the property of the property around while property around the property of the property around the property of the walkery paint special temperature.

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Ady 18, 1386

That is to say, he estimates that the hads will be Mr. Jennings. - But it has no connexion with the rate for the excession of the weeks

taken men that busis Mr. Braus -It does not follow at all. The im-

1817. Mr. Sout - That is what we object to that it is too high. There is 12s, 6d an aure down for some of the townland Mr Cuilton speaks of that in ereal to £1 an Irish acre—that no tenant could afford

to pay
1818. Mr. Cullen.—I remember the time when a
great food came, after I set the greater part of my
members in censors, and I got £1 an zere more because the and was enclosed by the contankment, than I could for the land, subject to the food. 1819. That is to say the lands protected from the

fooding were worth £1 an acre more than the lands

which were not protected !- Yes. Speaking of Mr. Adyn. 1143.
Floreing's lands, who holds part of Derryles-part M. John and damaged the high and dry land would be worth

of the scourity of the crops and the fact that the other lands were destroyed !- Yes; but what I want to may gest is that if would be a wrong thing to fix at the higher percentage land that is protected and above the food as land which is under the food. It has been suggested here, and I firmly believe it, that great relief

could be given for one senth of the amount proposed. Some time ago the people of Mountmellick reads a subscription and obtained great relief in their unigi-teerhood from Mountmollies up to Slievebleen; but at

Mr. Bauzs.—In the absence of any more witnessesbeing tendered new, the Commission adjourns till Totalsy must at Athy at 2 o'clock

TUESDAY, 28ve JULY, 1885.

The Commission rest in the Courthouse, Athy, at noon. Present:-Lord Castlerown (presiding); Rt. Hon. Henry Brunn; Sir John M'Kenlie; Colonel CARDEN: Mr. HARRARD, C.E.; Mr. HUMPHERY SHITH, and Mr. J. A. CARRIDY

Mr. PENNY, Secretary, was in attendance,

Lord Carrierows.-L declare the Commission appointed by His Excellency the Lord Licoterant to inquire into the drainage of the Barrow and that of its tributuries open here to-day. The Consulution is surject. We will first of all hear evolution as to wale-ation. The maps and achtelules have been looked here, and any gentlemen having any objection to make, either to the valuation of the parterilars men-

1821 Sir Evorence Servosco.-You I wish to give evidence with regard to the supposed movement value my lamis are to drawe from this arterial 1822, Look Castlerows.—Have you may re-

fixed upon your land !- Before going into any detail place. I object to the appassed increased valuation

pol upon my house.
1823 The heads you refer to see 24, 25, and 25 on Opper (-- 1 eg.) an wan acquimmer with time inten-and as far as my knowledge goes I deeft conside that this proposed arbiral desirings would forgrow White house, Tipperous Lower and Tipperous Upper to this come into play. Allow me to sak this question suptwice a year, in April and October, for such pay-ments. Perhaps the Commissioners could inform use 1824 Our besiness is not to enower those questions,

age proposed to be effected would, in your opinion, be Sig Dussman effected and resconful, and whether the valuation Scenese. put on your hard is, in your opinion, right or wrong

1825. At the present time !-- Yes; at the present ine is would be worse then useless, for I think it would be a decided injury. 1826. Will you give your reasons for that !- I be-

sponsible, in the first materies, to the Board of tenants according to the accords laid down here the 1827. Is the lead put down in the schedule as gooded hard or injuned lead !-- In the schedule is in

most say there is certainly a part of those lands be wrong but I think it is in a reach more profitable state at present than if it were made day. Especially in a seemen like that it is root desirable—low parture for cown and take tool pinces. However, I see a ten-ant of miss here, Mr. Doyle, of Tipperpara and he can 1828. Sir Juan M'Kester.-Have you exemised the maps !- Yes, thus day

1829. Are you satisfied that the area of head marked there is correct !- The area- in what way ! 1896. In extent-dom the land marked open the which the transt will speak presently, in my mind it

1831. I can referring to the acreage. For matazon, in the townhand of Whitehouse, that is represented on the map by being coloured t-I think, so far as these but to increise into your views as to whether the drainleads are concerned, that this draining could not be Ser Teacous Borrows anything more than a very triffing improvement, me shes there was a considerable sum insid one on theready drivings subsequently.

1832. That is what the valuatior constemplates, and he has marked these lands as equal-to f being marrowed, and the thorough dreamage when carried out will have the effect of requireming the lands at William Down to the cattest of 4 to me here! —Wild, I deriv

this an one of that would be increased 4s.

ISS There we have the terrated of Toperana,
ISS There we have the terrated of Toperana,
the scange is given as 7s, and it is stated that the
ground in equal-teed of insign ingroved to the cacked in
3s, as none; and in Toperana Unper we have 31
acres stated to be capable of improvement to the
orient of 4s, as nore. Now, that being what the
whatstee put down, the quantum is, do you adout that
that whatshes of possible improvement in this endright—No. 2 if one it, I may epitain it in midall, and it is may explain it in midin.

ing.

1814. Mr. Bruns.—You know the district generally,
do you not !—You, I have a knowledge of it for the
last missions years.

1815. And you know the great extent to which it

1815. Ann yen KREW the greet extens so when me thould not the winter 1—Injured slightly. Post of it might be injured, but I wood go beyond my own land, because I only see the others in the distance. I have not walked over them.

1816. I am referring not only to your own land, but to the lands in the district generally which me.

To a certain autout I do.

1837. You should this they are flooded to a great
extens 1—They are injured by water, I won't say
flooded. They are not at all flooded to the same exturt as the hard new Measurements.

1838. But I am speaking of the whole distinct 1—I know only parts of it. I know the past about Nonnetonowa well. Of course any one traveling by the sallway in winter will see handreds of across covered by water over, dwinting from the Barrow. 1830. I think for Barrows, you and I not un this

Courthouse before and board evalence given of the maneton flowing and injury to basis between Monastorean and Atlet I... I have been in this Courthouse before with the Land Commission.

1810 And ordinare was ston given of the peace of the peac

and certainly not to the amount calculated here. I think the tenants would very much object to pay anything for desponing the Barrow. 1842. But your objections to the scheme, so far as

thing for deepening the Borrow.

1842. Bat your objections to the scheme, so for m 1842. Bat your objections to the scheme, so for m you at present state them, are rather to the tamifor than the beautiful which would be derived generally from the converge out of the advance—You, is the

that the souther with the comprising generally seems to statisticate on a convenient expense being given to a film prices time, and openally when that con would be thosen in the first insincer open the hardwest who has in covere it the best way he can from the insume has a covered in the best way he can from the insume has a power of the best way he can from the insume the service of the best work of the best power of the best work of the West for three maintains to be paid particularly in Aged and October. It may small very I abged to it very march. I have got any small very I abged to it very march. I have got 1845. But it a neither a width the downed he widther

1843. But it a others would be directed by which the land could be related from flooding, with what yet complet a fair cost to those who would be benefited by it, would yet see not see decision to carrying out such a selected—1 think those who washe the Lond Act of 1881 would be tomated by any improvement and the selected by the sel

1844. That was not my question. My question was that if such an arrangement could be made as the cost or boddene of seasons or made as the boding, do you not bithis that the carrying out of the adminst would be a beautiful to the district.—In the first molecular to the district is made and the molecular to the district.—In the first molecular to in made in your questions. I don't have the modeless would be stall flux, if the owner's few were made highly.

1845. This is again from the question. Lean ray peoring the Similations of learning was such that they peoring the Similations of learning was such that they would be first it year view, under those corruntations do prin or do you not thrush the distingen would be a benefit also by one of the similation of the district at length soft week and said you in down to the district at length soft week and said when the wise occupy the lands—width first is onle on make well some observables and the usery they would have well some observables.

so pay not 11, that is would be curried out.

1846. That all comes back to the question of taxaton 1—It all comes back to the question of taxaton 1—It all comes back to the question of textion.

That is the question to my mind—the money.

1847. But if there was a fair system, by which the

tension weak be suppored faulty, then yes thenk this shows would like a beautifut to distinct — In the late of the

1849. Colonel Carner,—How far is this land from the Harrow I.—I measured it as the crow files—from Athy across to this townland it is nine or ten English miles

1855 Is that the mearest point I—I short think I as a sollle out at the distance at 1861. Does this challenge ran into-the Barow morest Atly I—I think that Atly is prahays the property of the state of

Mr. James Dools examined

1832 Lord Carragrows.—Are you a topast of Sir Erasans Berrevas 5—I am. 1858, Whas farm do you compt—Tappernan Upper and Lower, and Waltoboase

1858. What form do yeu occupy?—Dippersant Upper and Lower, and Whitboom in the valuation of these—lare yeu any objection to it!—I have 1855. Weedl you raind stating your grounds of objection. P.—As fare as a primar is concerned, I deal's.

6 Six acc what it requires. There is no flooding there, and I keep the river that goes through the farm in goesi open other 1864. What is that river b—It is a mill-reco, and I have it to the hear to comble order; and I are

18/64. What is that sives h—It is a still-ruon, and I herep it is the best possible order; and, for my part I dear't thenk thus proposed dentings would be of any of service in the world to use 18/11. Is the heat at all injured that you have f—18/11. Is the heat at all injured that you have f—

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Not a bit. There's two thirds of my land too dry. It 1838 Sir John M'Kenire.—Have you looked at

1859. In there any part of your land very wet !-1892. In there a fall for thorough dualmage from it at mescui 1-I would consider there is not in its pre-

. In there at present a fall for thorough drain 1853 If a fell was given for thorough drainage would the hand be benefited !-- I don't think it. We have pastle foot drains, and a portion of it is two fees

-1848, Mr. Serres.-Are there not other tenonts

on this property whose hand is damaged by water!-1854. Yes, but injured 1-Well, there may be parts

1865. Are there may of these partim here?- No

to four feet -I think if they keep their hand in the

1867. But you have not more than two fact fall at see se, see. count !- Yes I am not well acquainted with the Mr. James

1868 Mr. Cassury .- Are you not a mill owner!-1869 Lord Cantarows —In your opinion neither

1870. You my you would not be benefited by the sheme!—I would not be benefited by the scheme.

or cannot up.

1875. Do you do much us milling t—00s, no; the
bosuses is done upstow. We are going to close our milliin a very short time. Six or seven years up we could work seven or eight months in the year, and now we only work two or three months. 1873. In that owing to want of tends !-- To want of

1874. Has it saything to do with the river !-- Oh. nothing whatever to do with the river. It is the want 1875 Mr. Hamann.—Are you ever troubled with hackwater i... No; it comes right up through the mill-

Mr. John M'Clean exeminesi

1876. Lord Carragrows.—Do you wish to give idence !—You. I messar for Mr. La Youshe, of evidence 1-Yea. Lipstown Lower, Lipstown Upper, and Ballymount. distance. The lands are fully thirteen English miles flore, and I don't see how these leads could be imno benefit whatever under this dedrace. Note of the leads are in his occupation, and from the distance

be possibly derived.

1877. What havony are the lands in 1—Bellymounts.

1878 In your spinion, ore the lands missed or not injured !- I am not aware that they are injured. I the sands. I have gone over them, and I do not see correlated to me of these lands being injured others i... These lands and others

1881. And was that desinage through dismage !-

1882. Is there anything further you would like to say!—I have nothing further to say. These are my reasons—that owing to the distance the lands will storive no benefit, and that there are none of the hads in the occupation of the hadlord. 1883, Sir Jone M'Kringu -- Have you seen the map which has been deposited here for public inspection !-- I have not.

1884. Nor the detailed valuation !-- Except this

1886. But there is a tributary on these kends, and outlet for the water into the Barrow !-- Oh, it at a Firy small teibotary. 1887. But do you not think any benefit would be derived from the opening up of that stream t-I don't think that a benefit would be derived which would

perpensate the isodierd for an expenditure of £50 a 1888. The volunter, Mr. Fringerski, has put down thirty-sine seres in the townlend of Lepstown Lower,

is that injured by naturation !-- I see that 1889, And he estimates that that would be in-

opened out, and of course fros vent given for that that it will not be derived, 1850. Have you may certlet now, any menna of horrany your main watercourse open new !- For five

or mx years we have not opened up this drain , but Mr. La Touche used before that open it yourly, or 1891. You mean droins and waterpourses !-- Yes.

he derived by that watercomes being kept open at the is any benefit to be derived by Mr La Touche at all in the transaction. The lands are not well. I would meet Mr. Fitzerrald any day and co over these with THE But would they not be benefited in any

1894. In Ballymount the valuator pots down 43

Adv 19, 1999 Me John

fall would be provided for these hook admitting of a thorough dramage to be carried out to a depth of to feet 1—B in my origina, that the lands would not be miles from this place to these lands. 1895. Mr. Burrey le there any wet had at all in there three townlands !- There is no land that I would

1894. In there say rushes on the land !-- No; it is a porten of the beg 1897 Then tert black peatwool! - The bog is under

1808. The bog number it yoursey!—The bog is nearer Athy and the lands are further away than the bog . there was a very large dram made there by Mr.

her. From that drain there is a sufficient full to cassy away any water we consider necessary to be re-1899. But it draws into the bog-down't it !- No.

1900 Where does the lower read of that dross compty contan Study at the other side of Athr-act the 1901 Bet into the river!--It is at the other side

of Athy. I don't know where it camptles itself into, but I know that it does not empty itself at the Mount-1902. What is the length of the drain that was

about 400 or 500 recohes, and it cost fully £3 a 1910. How long upo was that made !-- In 1854 or 1904. And were you agent on the estate then !-- I 1905. And did any other proprietor join in they of Mr. La Touche's property, or actually on Mr. La Touche's property —I don't know where the full consider we have a sufficient full from the counts.

1907. And these see no well lands on these three 1908. Nor that would be improved by drainage !-

1909. And have you ascertained the opinions of the speaking to any of the tenants.

1910. Colonal Canners.—Wes say thereogh desinage does by the Board of Works at the time that

tion of the money borrowed was spent on a portion of

1911. For thorough drainage 1—Yea. 1912. It empties smalf into this drain t—Yea, thus 1918. But where is the outfall for that disin-your and in above Sir Reserves Borrower's -You on the

1914. Can you point out on the map where this large drain in I. The water of the river constant that

1915. Mr. Enjamin Jackson.—I appear on behalf of Major Borrowo, and I believe that portion of Ballyshamon had drains itself into the Greece, but

Mr. William Danne examined.

1917. Lord Carragrows.—Are you included in the scheme 1.—Yea, you will find my land mentioned on page 8 of the schedule for the Queen's County; No. 16 on the Ordeanno man. Mrs. Genttun Bellew in the 1918. How do you hold?-Under a lease of 30

1919. And you wish to give evidence as her tenant!

—Yes; the townlands are Correct, Derrybrock, Belly-manus, and Porteo. The probable increased value is coming up to the very door-land that has been drained, and is nerfectly day. The only truit I have

1920. In that in Bullymmont-Yes, in Ballymanus. I dee't see any land that can be improved in Cornel partly injured 5. Twenty-six seren flooded, I was m coffirely out of the question , these might be half or can come, over that, except through a get hale or a

thing like that.

1975. Then you my that Correct is practically not 1923. What about Dorryboack !-- I left the dam

1924 What is the acreage of that !- About five

flaviline. I set that bit of land every year at, I suppose, from £4 to £5 as seer.

1925. Well, what about Bellymann t—Some of
Ballymanns is Gooded The Strudbally river comes is

1924. Do you find it interferes with the drainage at all in winter in a heavy fixed is the cutfall introduced with i Not a lat. I have a good deal of make it a point very often after a flood to look correfully after these, and the very moment the

the minors.

1927. In fact you think that Ballymanus is not damaged at all 1—Not by floods. 1928 The injured portion seems to be very legg; it is not down at 200 seres!-That comes on the Barrow. I am surrounded by three rivers: I have rivers all around me. Poston of the hand senatomed there is adjoining the Barrow I have also a data six feet high all round the Borrow portion, and in that dam I have abuses at the end of the entlet, that I can raise and lower as I require. 1929. In your opinion there 200 acres are pre-

tically not injured !- I would not my that; but I will derive from the proposed scheme, as militately too much. At first I thought the whole of the probable

1930. Do you observe that the present value of the

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.Yes. 1931. Well, there is only £49 per down so the spicials improved value of that!—Yes; but then

pagestic improved value of this - 10; out then look at Porton. The provent value is put down at gg2, and S18 is put down as the probable improve-1932 In Portace I see that there are state-five

ages flooked, and forty-nine injured !- That is the 1933 Well, referring again to Ballymanns, you are jut down as having 200 acres injured—do counter that omegat is right 1-No, or nothing like

1954. Therefore the 200 ought to be diminished !--1926 Well, then, as to Postree!—Well, I think Poetene is fur coragh. I must my it is all damaged, but nover flooded. It was one winter. Sometimes in a very big flood the water comes over my dam from You can hardly me the river now. Rushes are growof lead tooluled in the valuation !-- I would not con-

1937. But in Conell and Decrybrook you say there me only five sores flooded !-- Yes. 1935. And Ballymarres has not so large an area

15th. Mr Campr.—If the Barrow was shoked up sitogether would you be much duraged !—I would, for then I would not have an outfall. I would be

1940 Mr. Barres -- Was that dam made many years ago 1.-It was made in my father's tone

hard to be desired in Ballymanus is given at \$1387. I have a man every day in the year at it. It would salp to use Mr. William 1941. And keeping it in repeat !—Yes, because the Petro.

1942. That is a copyide able expense which, of

1945. But you occuplate that at persons the Berrow does not give sufficient outful to this tributary raver. and that it is getting worse!-There is no doubt in

1944. But speaking generally of the district, which I am sure you know vary well, would you consider the if there was no weir at Athy, and if the very high shorp between Athy and the Kildare river was re-

doing anything to the Burrow. That would give a fall of right or none from

these impediments were taken away. 1966. And you think there is no impediment in the iver between this sharp and Portachagten t. None. There is a very sorore sharp at Beet. If the water was washed down from that we probably would find

1947. Colonel Canters.—I suppose a summer flood would injure your land !—It would if it could get on 2t, but it commot get on it. I was core flooded in summor. That was in September, 1879. I never

1948. Mr. Ponny.-Is there may other proorietor here who wishes to give evidence about the valuation?

Mr. Alexander Dunesm, examined,

1964. Have you looked at the valuation schedule to

1949. Lord Castlerows-Do you wish to give evidence !- You as occupier of Castle Roben form

1961. Are you occupier of the whole of Castle ti-about Sou ners: The field I refer to, being the hat any great expense for remolying this would somely be warranted. I think, with Mr. Denne.

1953 You have no dam such as Mr Dange men 700 1-No.

1954. His done does not come down as far as 1005. I suppose you would know your place on the temp!—You. It is above Bert. I have looked at the

I have not.

1907, 268 acres are put down as flooded. I suppose there is a great deal of your load flooded t—
There is a field of 11 serve, and three-fourths of it is finels come, as in 1879, of course the ficeding goes 1918. There are 190 agree marked intered !-- Well. lujured so for an the stoppings of the ciranings is con

1959. But you think that is fairly accounte t ...

nt upon it !-- I have not 1961. I suppose it is hardly fair to ask you about it. for it possibly includes other leads!-The two farms 1963. And there would be a decided improvement

cert !-- I think you would improve it purhate 5e, to 1983 Sir Jone M'Kennan-The Irish nore wee

at 4a 6d, an acre, and on another portion 5a. Of corner we see not able to define which is yours. I suppose it is all the mane quality of hand!—The sense quality.

1965 The improved valuation which Mr. Fitzgerald Mr. Alexandry Fests down in somewhat under what you say !have not given any thought to she matter more than making the rough group of from fig. to 10s an sero. bethaps for would be fair.

1967. No part of it is put down at more than for

Therefore the improvement assumed as correct!-1 1968 The injured land which is not actually flooded

sere and part at 3s an acre, and a third lot—the largest—at 3s an acre also t—I think that would be about the thing 1949. That is the statute are 1-That would be about one-third more.

1970. Mr. Pauses .- When you say that the removal of the sharp at Bert and of the wair which in share the Burrow, I presume you mean of persons living in your neighborstood!—You. As far as my knowledge, which as not technical, would go, that interiers with the full of the river, because the sharp there is very obstructive. Its removal would be a very emple metter, which would save the expense of an elaborate process that weald stretch out for make on either sale and make the rates still more could. We dread extra expenses heing placed upon the hash—either our own or our neighbours. I have conversed with others who know more about those things than I do.

1971. You don't moun to tell us your opinion is that the removal of shose two obstructions would be really all that would be necessary for the purposes of

1972 You speak of just about your own neighbour bood b-Yes. 1973. Mr. Sarras —The area part down here of the the removal of the impoliments I speak of, and that fooded level in 246 statests seren. Do you think your land, and that of the other tenant, would come up to

about that amount, that would be about 100 Iraqacres between both of you !- Oh, dear, no ; not at all By fooded, do you mean with the water actually coming over it. 1974. Von 1.-Oh, not the half of it. Between the two farms there might be 169 statute arres, the decomof which would be obstructed by the high floods.

1975. In winter the land would be fooded to a depth of about one feet !- There would be a source could see 1976. You think it is quite a mestake to place 346

1977. On the whole of that property !- Yea, or 1978. There are only two firms on that property !-On the river side. There is snother farm on the other rade of the care 1979. But is the land on the other side of the

the other seds of the canal. The property stretches back to the canal. There is some behind which is of course not touched at all. It is high land in no way official. No matter how wet the season there is a large portion of the form not affected by flooding to the 246 arrest-No. 1 don't see how that Isad

could be linked with the other farms. 1981 Mr. Papes,-How you examined the map ! 1982, Mr. Sorre - You are entiried with the rating put down for the improvement !-- Yes. I think so, provided the expense is not too great But that would make the large scheme feet, and prevent the flooking of any had!-If that rate would pay for a large scheme I have no objection to pay that much on my holding, 2s. or 3s an acre Of course the larger the schone the greater the area, but that is a matter for the engineers, and I are not

Mr. Resiscoia Jackson extrained.

high above th

1984 Lord Contamous,-When do you reprea second deal of money of late years in draining Colvers cent !- I appear on the part of Major Burrowes town Little, and there is an abundance of fall above 1985. Have you seen the map 1-No, but I know 1936. Then there are Mulispinsoyns West, Crawn plans, and Martinstown !-- I don't think the Parrow the country perfectly well.

1986. You have got the valuation schedule !- There, 1987. Can you say whether the proper figure has been put down for the flooded lands !-- I think not, 1988. I mean the sons. First of all take Carrighill Lower and Calverntown !- Major Burrowes has not lead in Carrighill Lower. That must be a mintake He has land to Carrighill Upper.

1989. In that flooded land !- No, it is fifty foot above the stream 1990. Has be land in Calverstown !-- He has 1991. Is st rightly marked in the schedule, 6 seres flooded !—No, there is no load flooded in Calvorate wa

not a perch. 1992 Well, hegin with Oldcourt, there are 386 acres put down as injured. In that occupat !- I believe that is about correct 1993. As injured 1-There are 181 sees turbury.

1996. And the rest !- There is part of the rest of at injured, but the larger proportion of it is dry, per-1965. Just run through the figures, and see if there or are the whole inaccurate !-- I think Major Burrowen would object to all except Oldcourt. He has laid out

1992. How much 1—About twenty serce. 2009 Well, in Crawagian, how much is injured 1— There are no injured lands in Crawagian. 2001. And Martinstown !-- There are some injered 2002. How much !- I don't think the account it vey much. Major Barrowes has drained that, and there is no swple fall. 2003 Well, what about Ballyshannout-I am

getting land drained for him there at present 2004. Now, come to Recefield; errenty-two ocesre put down as injured !- Yes, but there is no injured

go in vi. 9906. The pent is the Wevilli-Oh, that is a very mall place-four acres. It has been thoroughly

1997. Are they injered hads i-They are mixed

There is a part injured, but not so much

Beads more or less.

1918. Now, which of these leads are injured. In Mollaghmoyne West there are 112 acres put down as injured, is that so t—Oh, nothing Efec what is put

to Edward

2006. Carriered! Lower-what about it !-Oh. the therty-five neves put down there as flooded, we in the property. 2007. Well, as to the improved value—do you

stick that is fair !- No. I don't think it's value could 2008. What is the mean of the tributory that rema

through these lands !-- It is the river which rens by speaking of, and which is higher up in the stream. \$609. Is there anything size you wish to say about these hards?—Nothing more I wish to sait, will the promisters lying between Major Burrowee' property, as the Court and the Burrow, be compelled to open the stream to the Barrow! If not Major Burrowen

\$510 Lord Carrierows -Of coung. in a large drainage scheme, I suppose they would be; but that is

2011. Sir Joses M'KERLIE.-Noody all the Isoda

2012 Do you look upon it that these leads would not be benefited by the contemplated works !-- I don't thank they could receive any benefit whatever from serow at present.

2014. Have you get sufficient outfall!—Abundance 2015. For therough draininge !- Abundance of fall

some twenty first of full behind my that I could have 2016. Mr. Bacco. I are Calverstown decrease in

Burrowes, Him Jam Fringerski, and Mr. Freeman Have you snything to do with that land 1—Major Burrowes as the hand landlerd, and Miss Fitagenisi is the moldia ludy, and Francia Francias or the tenant so that any benefit to him would not come to Major

2017. Cologal Garrors -- I see 181 arrest of dorest bog put down in reference to Old Court-are you able to cut to the helton of that !--Yes, we are able but not from from water. There is water lying in it,

2018. Would not this drainings, if ou ried out, anable you to cut the turf better !--Oh, I think it would be on increasurest to Gid Court. That is the only benefited by the dramage of the Barrow, except Oli

Mr. Edward Jackson examined.

2019 Lord Carragrown.-I understand you appear 2024. That is your opinion !-- Cartifully. 5935. Dul you tend any particular ailting up in the 2050. And that you can gave us some valuable in formation as to the height of the floods !- Yes; I was obstruction-on tel weig-which held the water up

asked about four vests ago by Mr Vessekovic to go I would recommend any scheme of drainage. more perticularly to. I pointed out to him that no shows would be thoroughly officenous, unless the this casel, extended its course nearly a noise and a half inland. The scale, as the crew fice, is can mile from the river bank of the Barriw itself. I was she told that in the spen reaches of this begonnal, where the Nursay and Pinery rivers were carried into into a and upon the hand, there being no fall out of it to the Barcow, when the Barrow mulf is bigh in I took levels of the Barrow itself where it skirts his property for three miles and a balf, or three also. I found the hanks, in nearly every materior, were

Soods are higher than they used to be 2031 Mr. Hassanp .- Coused by the had of the up and partly by the dramage works being carried out in the upper reaches the water comes flown more spally thus before. In some places the hanks were 2022. What was the date of your exempation !-

In April, 1881.

Spil. Lord Carriarows —You say the foods come down more mostly. What would be the effect of that on the lower grounds below !--Of course the floods come down more rapidly, and being unable to get rway would distribute themselves at a higher level than they this before,

2016. Where about 1—At Bort. : 2027. Is that a temporary wear 1—Ob, I think it is 2028. Mr. John Gilmore —It is more for the perpeace of the still than as on cel weir. It is a mill weir

2029. See Joers M'KERLIE (to Mr. Jackson).-The

2052. And you found them below the flood level !-2038. Mr. Hassann.-Was that of any length?-

2014. Sir Jones M'KERLER - You say these ambankments are of little avail !-- Quits useless in a ligh 2005. You have no knowledge of the value of the

2006. But was did not recommand Mr. Verschevie to carry out any works unless the main river was improved 1-I considered be would be almost helpless 2037. Mr. Hassans -- Were there my shares in the 2038. Of course their effect would be to retain the water !- There were supe made in them here and them

2039. The hunks were uncleast-Unclear. 2040. Your experience of the Rothengua and Normay drainings scheme was that they brought down more water in feed time than before that dramage

2041. Was that the result of your observation !-No, from inquiries made. I was there only two days ,

but from making inquiries in the district I came to 2042. Have you considered the effect of the pro-oud works in the some way at Athy and below it i-

2043. Mr. Jerusz Price, G.E.—On behalf of Mr. Henry Harman, et Athy, neller, I work to see a few answer these questions.

2015 Mr. Price-I only wish to ask whether the whole of the Dake's weir is to be swept away or replace by slergest - The Duke's weir will have a number of he placed in it, so as to central the foods above it.

2016. Then I wish to sak low for the exceptations are

to be carried out below the Duke's weir through Athy bridge and Horse bridge, and whother these bridges would be removed or underpinated !- The dimension distinct at Athy bridge are now; but the bettern of the giver unsur that bridge will be deeper than it is new if the weeks are executed.

per of the works are executed. 2047. And will the Horse Seidge be widered or changed in form, for it appears, as it is at present, to modate the truffe above it, and the river under it 2048. Is Ardree werr to be done away with !- The

Ardree wen as below the junction of the navigation at the same level as at persent with a sufficient number of strokes to pass the floods through, to as not to throw the back water on the Duke's weig-2049 There is one other matter, but, I reppose, it will hardly affect the question. Mr. Harman has exceeded the right of outching cels there, and derives

a very considerable posts. Of course, there may be overstion at all ; but if there he a localized oil fishery

2000. Night I sak whether Mr. Hennen's water power would be maintained for his rail t-Mi Hannin's water power, so far as the dramage in concerned, is evenly maintained at the Deken were, 2051. And if the siries are opened they would, I take it, only be opened in fixed things so or not to with the beight of his water in remmen

before said, that the summer water level will be 2052. Mr. Baum.-Then your narwer refers only 2054, Mr. Price-When the shrices me opened

to carry away the flood at the low level upon the lower the water above Mr. Hannya's year or the Dulo's weir below the present event of the weir which 2015f. At any time?—At my time.

2055. Mr. Brury.—In those two or three parking. Mr. Manning, you say that the summer level is to be maintained by mouns of aluxon. I think you further these aluices. Do you anticipate that the clopes you

the flood level down to the point which your place 2056. Mr. David Belleney.—I appear for Meson. Wright and Walsh who are wrongly described in the

matter for decision before a competent court of arte-

2018. Lord Castletows, .- Then it becomes proofs cally a loral question as to the wishes of the necess portion of the property, and perhaps he would be

Mr. Thomas St. George extension). 5051. Lord Cantarows -- Can you give us some information about this property!-- Those is very little

2062. Our you give us any information about the value !- I am not competent to give you any infor section with room d to the value. Only a small portion. fro of which are are flooded, and the remainder injures.

2063. Is the erro correct: there are twenty three seres in all. How much of Load Scatter's is included in that i—(No answer.) 2014. Mr. Bellimon.....I was over the lower nor

2065. Lord Carragrows.-They don't think they

2066. That is those on the estate of Mesers, Wright 2067. Mr St. George.—Part of the flooded kind I

2058. If it was drained how much would it be worth !-- I am not connectent to my 2019. Mr Selfersey -- How much of your land in gooded -- Detween five and seven I risk acres. In my

fooded higher than that,

2070. What is your opinion as to the approximate also of the cel fishery!—Oh, the fahery ranged from Mr Thomas 2071. East your was mail in consequence of the streamlinary doughts.—Yes There has been an

extransidinary diought 1-Yes. There has been an excepternally good account, and the remainder of an

average 2072 Sir Jone M.Krimer - Nothing about the the works are proceeded with, that will be a matter

Dr. James Killwids, of Athy, examined.

2073. Lord Cauxarows -- Will you state your aginism on to the soultney condition of this town !makes down the raves in the Carlow direction. Part of my distract is most unhealthy. The part which pure up the river in the direction of Monadopyun is I am of exensen that these diseases are owing in a ervat mearure to the condition of the lands, on account of the footling of the Barrow. There it a very large like this, the others never become dry. Even this estus in the back part of my district. In reference

2074. Was that last year !- No, two or three years ago, I think. not the slightest doubt about that that it is owing

2075. Is that owing to the relaxmed-Yes; it has also an effect on the back parties of my chariot.

There are a number of people permunently luxed by
discount shearmatten. It is called "bog laracoom," but It is a chronic rhoumation of a very virulent charget better as long as they live in the locality. There the district. It is very prevalent, and I think it as ing being so sodden all the year round. There is no

or James that if the river were lowered, the sir of this locality bodth of the population generally would be much 2075. Sir Josey M'Kranze,-De you think the in

2077. To what distance!—It would all depend on the part of the district you would sak me about,

2079. Your personal experience would lead you to may so i—Yes. These as a large tertestary coming into the Bernew five miles off called the feer river, and

river than by the Berrow 2080. And I suppose there are wet mists prevailing?

5081. And do these rests extend beyond the arten! hunts of the flooded lands that exact the realization unframes i—Yea. If you would walk down about gine o'clock on either safe of the river bank you will find that the air is very damp and fetal, 2082. Is the disumps of the whole town affected 2003 And consequently the desirage of the town

2084. How at the town supplied with water !-With pumps lying nese the river, and they are affected 2085. Is the town supplied by wells?-Wells and

pursps. 2086. Are the wells affected at all by the sewerage ? They are 2087. Does that extend over the whole of the town 1

2058. You think the health of the locality would

2089. Do you think the inhabitants would be dis-2010. Mr. Batter, -Are you aware that the desirage

2001. And in the opinion of some the effect of these

2093. Is it your spenion under these circumstant and supposing nothing more is done, that the health

I could not say it would be the slightest advantage, m. a sanitary point of view, to the town. 2093 only above Athy !-- I think it goes down to Andree, man here to-day giving critisme about Ardree war, which is a quarter of a mile below the town, and

below Athy, and under their purposition do you thruk that the dramuge of the town would be improved by the drainece works which are to be carried into effect show the town !-- If the effect of the drainings works would affect the sewers of the town, even though the level of the water was lowered by the same works. It would accomplish the same object as if the bed of the

2003. Do you think yourself that the level of the treased helow Athy !—The river in places immediately ledow the town is six or eight fact deep, and if this was a comple of feet at a lower level as the effect of

2006. But, realess it was lowered a cocrole of feet? -Well, it would require to be lowered a counte of

feet, certainly—at the very least.

2007. And do you think the lowering of two feet
would be sufficient !—The more the better—has two present time. One of the main sewem opens into the back drain and emption their thore. Then to continue

2008. Two feet at food time !-No. even steam 2009. You think a lowering of the summer level

condition of the town !—Yes, as a minumennot say, for the flood time frightfully here 2101. Mr. Surra.—Would it be your opinion that that. There are a number of poor people at present removed of course the rates would be relieved of the

3103. Lord Capturows - You mentioned the

3104. Is it a sovere or only a moderate type of typhoid form that exists !-- Ob, very virulens.

2105. And generally the maitary condition of the 2166 Mamly owing to the river !- Yes.

2107. Has it often ownered that people have been

2108. What norteen of the town is that in I ... Resh. slewut—on the Monasterrum side—along the edge 2109. Do you find, as a rule, as you leave the valley of the Burew-and you proved in your district

tary part of the country 2110. Sir Jones M'KREATE.-Is your district shows

2111. (To Mr. Mauring)-Is it intended to remove the accumulated mass of metter which exists in the

2112. Mr. Massing.—It is intended to continue the river charged at the same section above and below, 2113. You intend to underpin the bridge and ex-

2115. Lord Courtercove ... What is the depth at

3116. Mr. Munning.—The depth of the channel— below the proposed flood iron will be 9 feet 6 meles, 2117. Sir Jone M'Kungu.-There are chalcuctions 2119. If these are removed was's that lower the surface of the water That will lower the surface

2121. How much would that lower it?-That is a

2112. I mean within range of the drains of the town !-- I could not tell that. 3133 Lord Captagrown. -Will the proposed drainage works give sufficient outfall for the drain of the

town !-- That I could not tell without examining it. 9124 Mr. Hannach ... The surrouse scales between The same as at present
2125 Lord Carragrows (to Dr. Elifetde).—You think the desire will require a full of 2 dept. 2126. Dr. Kiffrede,-Yes, that at least, for at the

2127 Mr. Manning-There is no tenson why the sewers of the town might not be conveyed below 2128. Mr Butter -- Does not the revenues of the

3139. Dt Kilbrids,-Some of it only-our main 2130.-Lord Castartows.-And the rest into the

Mr Mannite-It would be feasible to bring the

Dr. Patrick Laurence C'Heill, Athy, examined.

2151. Lord Carragrows -- Will you knowly state district!-I am officer of the Umon Hospital here, and I find that the manurity of people suffering from elecano disesses, ruch as chromio riscumstam, chronic heart disease, and chronic offusion on the chest, live somewhere in the vicinity of the Barrow or on some objectic diseases that arms, I am certain, from thenmatrice treedsteel not so much at the time of the floods disappearing and under the influence of the can upon the wet surface. I have no doubt at all about that Some esses of fever have been sent into the fever hospotal at the same time from different parts between this and Monasterevan. From the district of Monas.

2132. A distinct type from typhnia fever !-- You. the cases for some days I came to the conclusion at

under the same samtary conditions as the nonde outpatients to strend to in the hospital as I have at pre-2134. Have the number of osses increased 1-The number of cases they year has ingressed. I have seen very few cases of genuine typhoid fever, but I have

2135. Sir Jours M'KERLIE,-If the brain which you have been referring to so producing malarm fever were De Patrick relieved from being flooded and from wirting out being exhalations, that would improve the builth of the dis-trice!—Not a doubt of that; it would be the most healthy under the yea, for it is entirely a peacy dis-

tract—the most wholesoms ground in the whole district if the floods were prevented. 3135 And would not that have some influence on

so for as the district over which I preside was con-2137. Lord Castarrows -Do you think the district generally-from your knowledge of the people

dangrouslie state of things removed !--If the rate
was compatible I den't think there would be any

2138. If it was a moderate charge !-- Yes, if it was Lord Cornarows -The Countlesien will now go nto the case of the Barrow Navigation Commany.

Mr. Percy Les Toucks, Chairman of the Barrow Navigation Company, examined.

2150. Lord Casmarows,- Will you make a st-23,00. Acres CARLETOWS.— Will you make a conti-sent first and then go itself or visione I. I will make a materiars first and them give you the opinion that our directors have formed of the proposed achieve from what they have head and read about it. Then Mr. Mitshell and Mr. Keating and Mr. Weinter, our arents, who are well accounted with the naviouble questions as to the part of the river we carry over.
I would, in the first place, wish to remove any im-Company is necessarily opposed to a scheme for the dramage of the upper part of the Burrow. We are, see subject to floods, and if any complete scheme was brought forward-way sehome that made due requinon for the interests of our shoreholders for when we slways must stand in the light of trustees, we should be happy to further it by any means in our power. But this scheme does not uppear to us as all complete as far as we can judge. Of course, we see in the somewhat difficult position of being called upon to criticuse a scheme the full details of which we have not had in one possession. It was only this morning I now the full report of Mr. Manning, the engineer, some time from which we have been shie to form some fort of an opinson as to what effect these weeks would have on the navigation if carried out. These documents are the preliminary report of Mr. Manning. furnished to the House of Commons in August, 1834, regards the preliminary report so seen so we received it, we submitted it to the eminent engineer, My Mulvaray, who has had the advantage of an solved have to favorage us with any observations he might Wish to make upon it. He shortly afterwards furnished us with a report from which to appears, that while guarally accepting Mr. Hanning's calculations he drow from them very different deductions to these formed by that gentlemen. There appears to have been a propriet in the prefineinary report that marked us to begin with. It describes the area desined by tourne, it sught to be 750,000. In the preliminary report which was furnished to me, Mr. Manning

maks of draining a district the area of which is ones in 1,185 square miles. The Burrow drainings the area contact for 407.850 seres, and on Mr. Masselms have little doubt that the statement, that 1,185 source make contain 140,000 acres, is merely a cherical error. Mr. Manning estimates the quantity of water to be discharged at Athy as a winter flood as 400,000 rabic feet per minute, hat Mr. Mulvany care that Mr Fersythe, C.E., into engineer of the Board of minute per sors, which would raise the total quantitie

2140. Mr. Hausann.—Have you got Mr. Forsythe's Mr. Mulvany sent to us. Then Mr. Mulvany procoeds to say, that, according Mr. Managing's farures. which it appears that only two of these are more than 1,000 feet in length. The first weir at Ardree is 550 feet in length , the one at Carlow is only 457 feet in length, while the one at Bestfield, which is between Athy and Carlow, is only 120 feet \$141. Is that irrespective of the simics at Carlow t

-There are no shaless at Carlow 2143. I think that a are !—There as one cel simice lessening the great pressure there does be on the weir. long. Besides the 400,000 cebic feet of water per minute, which Mr. Manning estimates to be discharged over the were at Athy, you must remember that the contents of the rivers Lurr and Gross couply themselves into the Berrow shove Besthald, conscouently

of water falling over that we'r then there would be falling over the one lare at Athy. These are, as I say, swenty-two weirs on the navigation, and only two of these are over 1,000 feet in length. Bounder those moves. Lerr and Greece, which I have mentaged there are other very considerable rivers—the Burren and the Birr, and the Douglass, and all add their Mr. Por La Tau where to take or to better, as an addition of the dependent of the lever part of the manightee. Mr. Michrony control the specific is a measure which shows that he defers very much these Mr. Matering when the Intel gentleman relate that he does not conside the penent durings etheres which have any lignature effect upon the manighton. He may —
"Perm recollection and safety the Order may, very
"Perm recollection and safety the Order may, very

"From conclusion and sold by the Ordenser room, we array of the sole in the anotytican or in the sole if a close of the conclusion of the sole if a close of the conclusion is a sole of the conclusion of the con

This scheme does not contain any provision to every off the flood water or prevent us from being very gentoutly delayed or interfered with in our traffic. He continues—

"A strong representation of these results which present me termination of the preposed fringings made as Aky, aloually without delay be made to the Termany in order that in a Royal Commitment to require just the deminance of the Borowe, the intensity of the marginism should be committened. Defined in which the light to tong also work committened, Defined in words the light plot on the contraction of the contraction of these is words the light plot on the contraction. Therefore, Doughts, and Royal relevant, fore such the below Ashly, before keeping the research."

This the observation was the two effects an epidemional residence of the reference of the r

"That is reserved which can control flood) in no related of country refers the size, dealbudging some cuto it. I found out that day dast the late rose four below, which prevented a following of sight turnle of a sole which we have per sentent, so that if the lake had not surveined a consecution, so that if the lake had not surveined a consecution of the size for the size of t

That shows the value that Mr. Manning puts on a consideration of the manning of the calculation of the discharge of floods, and the only equivalent to such a reservoir possessed by the river Bourse is the large low-lying thatest above this power which is habit.

smbol as remailing an increase will peak belong the whole in the control of substanting speaking, and that is the obstant proposed be to dissent proposed be to dissent. But the control of the substanting the control of the transverse from the error. Beloncy, because and the formation of the formation of the control of t

"I know that apprehensions have been entertained that this immente quantity of water that will be sent flow refidepent them. I do not soon in these apprehensions. It is obvious that up not the quantity of water that impretable measures, but it is the velocity with which the water is sent past the mevigation."

That is, suspice as field we want differ from the entire, of of many, the same and vellege or the entire, of the many the same and vellege or the entire companion of harder the many the entire companion of the flow of the entire control of th

All S. Lono Commonors—What is the effect of the Bathacque drivings. Has it had any effect on you as all 1—Oh you we consider it has had in effect in hastering the flood down to the newlegible part of the river. It has not had any very serious effect upon us because, as for as I could gathow, the water corning down out of the Ruthacque rever kinning specials itself can in the mighton-hood of Mennati-

2144. In points of fact is more by the compensating tearrest ty on yoles of, and corner down slowly after that 1—Yes. You see the Bodanagan river disasses, both, below it years disasted, when you can be a suppression of the circum. The Endosagan disasses have been designed as the point of the point of the point of the point of the study, or with that of year disast the Bonary year will have higher works of the Bonary year will have higher when the the Bonary years will have been provided to the Bonary of the point we do the Bonary of the point will be the Bonary of the Bonary years will have been been paid to be provided to the Bonary of the Bonary years will have been been paid to be present demands.

scheme appears to be funglis with must disagree to my company, and that is the openion with spans to the accurrance of the orience green before you to Patter lington that the people of that district stated that the rives had office by very mask there of last years, are witness intellige that people could walk drybold account the river, where a few years ago there was a

in reply to Mn Castily, that by regulating the and by the evenness of the bed of the stream, the accommission of silt therein would be provented. That is probably the man. Where, of source, the emplant of inclination is not very progeler, and the is maght entirely put a step to our navgeties until we could dredge away that amount of sand. The sile at present appears to lodge to the upper reaches of the time to time. I have heard it stated, and Mr Manning acknowledged that these was always, more or less, of them might be, and we can only conjecture that and of the cheered until it name into comparatively still water where it might form a very surrous unpudwent to our navientary. These overer to be the prinsipal dangers to which our navigation will be exposed even if they covered our track lines, they would chairman, that he had made no examination of the body of water they were going to send down. Even at present the carrying espainty of the river appears two yanglalis following one another at very close intervals. The effect of the first one u, to fill up our reservor; and this of the next one is to altogether niferable foods as it is. Mr. Mazening asknowledges that the destruction of such an obstruction, or resersevelf how this can be so, and I notice that in the

"I believe the work has been prepend in including the apper parties of the fairnet, but this to the lever permits of the fairnet, but this to the lever permits of work. The review is such that these approximate by ward of work. The review is such to different to the other than there is nowhing the a stageout distal, while in the winner a theory volcace of work or some down and found the bright play brigh below the distance district. This has assood and will peak a good land of completion on the force version of the New, and will publishly bright another require such as this."

He then proceeds to ask Mr. Mannang how he can work the recording has with his optiment that he winderflow of the Barkow will be zone regular than before, and Hover you may be the Barkow will be zone regular than before, and Hover you may not suffer, our clearly to the Gauge and Monangie in surgery of the supported I thank motion referring the look and some the process of the large work of the support of the tree when the Question Goodway as more — 3 Mr. Will, I I don't work that the process of t

remoded. I have its most with regard in this schools as Asy.

as a finite near registrate—a temption which case \$\frac{1}{2}\$, reconconsistent in the second of the seco

Manning proposed to steel driven upon as. These la very conductable around it fails jugo the last a very conductable around it fails jugo the last of the last conductable around the last conductable fails in no deside if any interruption were council to the relief. It would be the gooding speakle incomward of the last conductable around the last conductable who depend on the six has soon of getting their copylical who depend on the six has soon of getting their copylical in the vertices that the last conductable around the in the vertices that and mail knows with sort the six of the six of the last conductable around the six of the six of the last conductable around the six of the six of the last conductable around the six of the six of the last conductable around the six of the six of the last conductable around the six of the six of the last conductable around the six of the six of the last conductable around the six of the six of the last conductable around the six of the six of the last conductable around the six of the six

is about Jil I have to say.

2146. Leaft Oserstrown:—I think it would be well
if you saked Mr. Manning one or two questions. I
Mr. Malansky a noget the —Certainflysis. I shall be well
Mr. Malansky a noget the —Certainflysis. I shall be well
have to go sain Mr. Malansky regord. I have neady to
sarver tay questions apo by the Certainful
series.

2146. Mr. Vors Mr. Kintan—As I understood, the
optimised by we supplier as it, that the discharge of water
common of you conjector as, that the findency of water
Mr. Manning!—Yes, and that there has been no
previous made at all for our merglates.

I possible have no not rever to regame, and a possible have no not rever to regame, and a possible have the possible reported for the possible have been desired to the following desired to desire desired to the following desired to the following the possible have been desired to the following desired to the following

exceptional one, I believe. The flow of water was

greater then than at any other time !-- We don't

11.6. It was an emplorately high flood. In the tandow, 73, there was a revel pick but 0.6 Galvet-like in August, 73, there was a run of these floor sever a run of these floor sever construction of the construction of 2100. The floor of 2100 The f

of 2102. But I am speaking of the September Scot.

at Howe you say record of the quantity of water that

two passing Carlow at that time I—No. We have no
means of tuning the quantity. Some goes through

the loople and series over the veir

2153 Well, I have made some calculations at

the Carlow of that Scot. These were \$56,600 colley force
per marrier pounting through at Carlow weir—e at the

799 25, 2111

it gives 1:10 color fact per minute, said at Athy the sens day there were 416,055 cubic feet per minute. which agrees almost exactly with my Carlow experi-ment?—But Mr. Manning's estimate is something

mean some man of the manager enteriors is according under one cable fock per now per naturals.

2154 In round number 1, but the difference is not very large. Of course you are sequented with the whole dramage care of the Barrow 1—No, I am not.

2153. If you look at the man you will find, with 1103. If you see at the map you will first, with the exceptions of the Stradbally district, and portion west of Pectarlington, these is scarcely any elevated ground in the area. I was looking over the whole water would flow over this district and other districts the Lough Nough dustriet. The drainings area of that

3155 Then if you take the drainege out of the Stride it by the gove and you will not negrit the as mit. If the channel is properly made and recounts muse that will beer any resemblance to this district !--Year, that the arguments which spoked to the river Boycer or the Shunnen should not be spoked to thus

\$157. Because the areas are totally different. What I want to accretion here is the quentity of water flowing off the ground. If you take the duchange— the quantity of water flowing out of Lough Neigh; sold to that the height the lake rases to within a given that runs into the lake. Therefore you can form no analogy or resemblance between a district circum-

2158. In fact a very much less evantity of water

2150. Here it flows off very alovely, while the dramage area of Lough Neigh is very precipitous quantity disharged out of the lake and add the height agree with you. It may be of goest use in drainage

part of the river subject to our unsugation 2120 T thruk you said Mr Eornythe, in his report

with formed his exercise but it entirgly account to me that 12 feet would not be required here!-That

2162. I am speaking generally, down to Athy i... 2163. There was a district lately suthermed with district Mr. Price was the engineer of that project. That me a locality in which the drainage area is also sea, with a distinge area running as high as 2,200; feermal 2 cubic feet per manute was enough 1-In the once of a lange lake lake that, would not engage walks

2164. Any evaporation in that short space of time world be very small !- But it seems to use that the volume of water that Mr. Manning says at the proper time takes a feetinght or three weeks to be discharged 2165. I was speaking of lakes. These floods occur way. Then as resugh the selt, were said you thought confined or properly dusined a less amount of selt is

less !- But are not new banks very likely to be

Mr. Menning .- I never new the Lorr river in my 2107. Mr. Hamann.-Oh, it is I can tell you all about the Lerr. The result has been that. Formerly there was an immense sorumalities of and and But it is now straightened and curved here Jeranalon bridge, just above where the Lore comes into the Barrow. I made inquiry as to how that formerly. The clearing out of that seem trop there that the evidence of our people would agree with that I people with the mouth of the Lerr the other day, and dredged out of it too How long is it Mr. Webster since the last dredging. Mr. Webster is one of our

Mr Webster —Two years ago. 2168. Mr Les Towele. -- I see it is Mr Bruco who pake shout concreting the banks of the Lery, and then Mr. Haynard sava-* I dis that - and whom they were objected to I told Mr

2149. Mr. Hassanp -The inclinations are very storp. They run from 13 feet to 36 feet per mile !-Yes, but the slepes are 1 to 1. 2170. I think you will find I state the slopes I to I would be disposed to slopt. It need not increme the expense I—Yes, but Mr. Breen then asks would not the same thing occur in this case. He sake "It there so fear that is some part of the Revrow's course she came difficulty may arise and the name father."

And Mr. Naming mys-

"No doubt, but I have not good over every person of \$171. Mr. Hassanp.-Yes, that in if the slower were not proporly provided in the first instance, charged might be formed with alopes of 2 to 1, and the same quantity of excevation will suffee. There seed not be any solditation outling from that come 2172 Mr Bayur.-You mentioned your charter

2173 What was the depth that was mentioned in that charter for the navigation 1—There is no depth

2174. Then there is no depth that you see bound to mintain !- There is no dopth we are bound to man-2175. What is the depth you do maintain practi which were taken thirty years ago in 1883, they re convergeous upon the report he wrote we made nounduge of the absolut places that he mentioned. On the flut July last Mr. Mitchell wont over the same tortion of the river and took soundings at the same an inch and a half lower than in 1833, the level and in July, 1885, there were 4 feet I inch of water over it. In Ferminil in 1855 the depth was 3 feet 8

on go on with the particulars, but there is no per-2176. The level of the water being taken as voor Mr Mulvany's respection was made in 1863 than when Mr. Minshell mode his examination in 1885.

2178. Is it your opinion that the bed of the river is the same as it was thirty years ago!-That is our with the whole course of the navigable river, will be 2179. There is an obligation, if I am rightly in

charter. If we allowed our back drain to become in 2180 You are of opinion that that obligation do

son extend to the bed of the river properly so called? -I thould conduct we are under certain obligations to keep the whole rives us the same condition it was in or at much as possible to the condition it was in

\$161. Are your works, in your opinion, espable of busing an increased atrum upon their supposing that higher floods were sent down in consequence of

would provide a waterway for alrees of 2 to 1, which 1874, there was a very serious brusch made in one of our 1,44 st, 1881 was great interruption to the traffic in consequence, * 11s. Peop at any rate our works were not constructed with any idea of being able to withnessed any greater volume of

2182. When was the Rathangen dramage freished? 2183. You say the water coming down from that district does not affect your part?-Not to any very

2184. Mr Sunra -- Perhaps you are under the impression that the water from all the different parts of the Barrow would come down at one time, or at lesst within twenty-four hours---We think that by the new system that will probably take place.
2185. You will find that will not be so, because

the tributaries that are down the river-on the larger Bartow begins to come down at all. In my neighbour-lood in the Quent's County we have the Onass, a that you won't have the water down at all ar qualify as you expect in your neighbourhood, so least from the little Barow !-- We are aware that at present the testestaries discharge their water into the river is to be so increased, that we believe it will be that they will both come down about the same tope. Mr. Manning says, that it takes a fortnight or three swenty hours.

2186. Mr. Moreovey.—Ethiny reter me to use atsteament. The discussion was when the reservoir filled, when the flood would be discharged, and I said if would probably take a week or a fortright, thus in a very deferent thing to what you have been staring, 2187. Mr. Le Truole - You my "I would suppose after a heavy reliabili in the valley of the Barrow moles, and in July, 1880, at was 5 feet 7 moles. I 2188 Mr. Mesmuo, -That is that the land would

2189 Mr. La Toucht,-The lend being relieved is only another way of saying that the floods will go 2120 Mr. Hassan -- I told you I calculated what

works out what I told you. A welr of 1,000 feet with the water running 18 inches on the top gives difference is not much. 2191. Lord Carrierows. -But that infere that there would be weeks in connexion with the drainage

down below in order to extend to Bestfield were. 2195. Mr. HARRAND.—If Mr. Mulvany assumes it would be 1-17, and that 1-10 must pass over it now, the condition of things wen't be assistably altered
319h, Mr. La Tanhe —Bet new it takes a fortrught or those weeks for the water to ness even that well, and under the improved drainage scheme the water 2194 Mr. Hassann.—Mr. Mulvany asks for 1-17 the feet per namets for the required scheme. 2194 Mr. Lu Tisado.—But Mr. Mulvany seys it

would take a wer 1,000 feet long with 18 inches of water on it to curry off 400,000 cubic first in a minute. You spoke of monutring the water passing at Carlow in the flood of 1879. Did you include the amount of nter that was passing through the two miles? 2194. Mr. Hamand -No, but that must have been a very small quantity. I doubt if a mill could work at all in that floot. The lack water was so high that there was only a full of one feet ben inches at that time. 2197. Mr. Le Touch .-- What was the depth on the

2198. Mr. Hassann -- Three feet ten insbea. The weir was subsected. It was a deswised were. 219 Mr. Barrin.—Might I sak the questity which

2000. Mr. Hanard - 554,600 cubic feet per minuse.

fe. Mosane.

2101. Mr. La Teucles-It appears, as a rule, that in executing drainage works, the plan is to begin it is touched!-Yes, at least it is not accessary to wait to have the upper portion finished before you com-mence the lown; or, the contrary, you can go on simultaneously at different points of the district to

2102. I know in agracultural operations it is generally the plan, at least you would be very much full before proceeding to the super part !—I think I know what you mean-that there is an objection to dealt with the lower portion. That may be the case or not according to the particular circumstances you it would be very wrong to drain in the upper part of a river, and in another case it would not make any

2003. Might I sak whether you consider at would be urdingen to do so with the river Barrow !-- I have not, na you properly oneervon noun to conve noisy. I receive the quantity of water text down by this drainings will be very little increased—that it will make no difference in the lower manhes of the river. Probably or three things together. For example, first of all, the error in my figures. That error in my figures that so many square miles were equal to so many square acres. I bound it was a misprent. It was not a misprint; it was a cirried error in the offer, through taking a 7 for the figure 1, and putting down the latter for the former; but onyone who had occufully

stated that the quantity of water to be discharged was 400,000 oabse feet per minute-2305, Mr. Meuman .- Then, as to the length of the welp......1.000 fact, with surbteen inches of water on it. of which Mr. Mulway has spokers. I cannot under report I could understand it. As you have given his statement, it is really without meaning, and I will to be 1,000 feet. In another case the wear to 45% only 120 feet. Then, if a flood took suptrem inches of water going over a were 1,000 feet us length, what would it take to go over a 120 feet weir! Thesefor the length of the were is no criterion at all. With Rathengen district, you stated a matter which I was not aware of before—that my profession, or Engineerestimated for one and a quarter cubic feet per minute nor save. I was aware that the Board of Works took that forty years ago, but I have rather gone beyond that. If you take the total discharges you will find that for a catchment heain of 78,000 acres I give 100 000 evine feet no minute, that is, about 14 cubsc

feet nor agre per minute, white Mr. Forsythe only

extended for 12.

*1995. Mo. La Fresche—Bot is that calculation about the river Barrow t. Yes, from Mullagh bridge to the junction of the Slate river is 78,000 cores, and

d cubes foot per nove per minute, so that I have notably engineed the quantity of water given for 5906. I understood you estimated at 400,000 cubic

2307. And you are now speaking of the Rathungan strict !—Yes. You here only samme our feet per distant l—Yes. You have only names one core per acce, and Mr. Foreythe saurned 1½ for Rathragas. Mr. Foreythe was periodly right. The larger the district the smaller the proportional quantity. 2505. But surely the nature of the Rethaugus basis is very much the same as the nature of the think if you do me the borour of roading over my afit. You said that we would send down site into mver, to prevent the sand or silt being carried down at the I say —

"And I may here remark that whenever the detailed pleas come to be made it way be product to zeries the designs for the upper reaches, whenever recomery, be designs for the upper reason, whatever recently, to reducing their depths and investing their widths. Pure-relar attention should also be given to the establishing a

It is my intention to regulate the channel, so that the ver abali not actually send down or supply it with aft the banks are hable to fall in t-You, in a discession with one of the Commissioners, Mr. Hannerd, nomed to be playing at stone-purposes. Mr. Hassard was as the fall of the best of the raver lengthwise, and then

followed the thing up.
2210. The sides of the raver are more likely to be

thing like four unites an hour !-- About from fact a second, which is the managem velocity during food quite understand, and Mr. Housed appeared to comm in your view, namely, that it was neclear to occupied you. If you hand yourself to the facts collected in the small district, such as the Sinte siver, or up by to darksaged in any one of them. In this particular case, so Me Hassard elearly pointed out to you, the abject is to find out the quantity of water that flowed of the ground. I find it here stated in regard to Lough Neigh that eight-teaths of a cubic feet per and but for the compensating power of the lake there would have been a quantity of 1st cubic feet pupilized discharged from that district. But the reason of that is that that district is very precipitous, and it wood to he communed with this district in that properly one. But then if you confine yourcelf to the district unnedistely about here—why in the Broson river, which is only 285,000 seres in extent, as against 450,000 acres in the Borrow, you will find the greatest fixed ever even there was 267,400 cubic first in a minute—that amounts to less than a colde feet per sere par number. From 1851 down to the year 1877

205,000, and so on, but not near a foot per acte; so

2212 Mr. Mulvary was quite prepared to admit-in fact, he accepted your figure of 400,000 cable feet of the welr and the depth of the water therein-hat

2213. I don't know that you have stated what norucelar featcoen you saw in the Burrow which make you think it would not be injurious to drain the appear postions of the river before any alteration as made in the lowert-I helieve that the alterations proposed to be made in the upper part above Athy will not make made incomes in the discharge. It has

wast you propose to do with regard to the Drike's well here I think it would be of great value !-- I the east of the Bule's war, and we prepose to carry a charmel 160 feet wate with a fall of 1½ feet per mile up to keyond Bert Intige. Then with regard to what as to be done with the wairs. First of all, it

Will you confine yourself to the weir just solow the bridge !- That is the one you talk of-the ore remediately below the harder, called the Ardree

2217. The weir I sto referring to it the weir beween Heeselevilge and Athy bridge i-Which is Osnal. Well, it would be necessary to put chaces

\$218. What would be the object of these sixtion !-2519 Mr. La Tought -- Would these sleeces have

carmination that subject as to the navigation consing

at all below Athy. All you have said may be per Mr Messing, feetly true below Athy. I know nothing about it. or.

The only inconvenience you could suffer would be in the 190 years in which you navigote the river from the drainings there would be of good service to you. Ardree mills is continually under winter flood 2220 Oh, not the townsth of the Canal 1—I have seen it myself. You have gentlemen here who will

2721. Is that so !- The water may come up in very high floods. Mr. Webster-It is very little flooded. But it has 2213 Mp. Manulay,-I heard it is flooded every

year. These shapes in the war will keep the flood down so that you will have kee cross correct there. 2223. Leef Cornresses —Is there any proposition to do anything below that —None, at all. We take the height of the ravigation weir as our commence-

2224. And you would prefix in point of fact not to no syldence as to anything below Atley, I know nothing 2225. Mr. La Toucke-But you are not prepared

2226. Mr Hamann.-What is the length of the

weir at Athy !- I dan't know. 2217. It is about 313 feet irrespective of the slusces feet you might call it. 2228. I am speaking of a wair which is 310 feet in

bength !-- I would build that weir the whole length of so new river-180-in addition to some plens 2231. And that would involve a certain amount for

maintenance, which with the work should be capital-ised to represent the total cost !-- Yes. 2132. And the same thing would be required at the anygation were below if you remove it to another sate 1-I think when you come to execute the works for wen to heald your weir with the old nevigotion well

2234. And that would be a costly matter !- Yes, 9936 Will you rave not your opinion about this-

talking about the removal of the navigation was altogether. When a boat comes out of the 28 look, 2237. If lock 25 was abardened altogether and a being done away with altogether) you would be then that now exist-do you see any objection to that !-It is merely a question of expense-which is the obsequent to do. If you put a look there or an addiAdv 15, pers Mr Nucalag. you have depth enough.

though chember you need not have that level, provided 2138. Mr. Lu Teacle.-You must remember that 2138. Mr. Les Peaces - 100 mon et al. our mariguition door not cause at that weir, it our mariguities door not cause at that weir, it

navigable. 2531. Mr. Hassans,...The river between that weir and Andree were quebt to be decreased for nevisition and there eash to be a channel made for bringing your 2340; Mr. Le Touche.-I don't think the Burrow Navigation Company would have any objection to that — but you should provide us with sufficient *2240. Mr. Churics Houghton (Ardree).-You should

Mr. John Keating, exemined,

2241. Mr. Bauzs.-You know the course of the of the Dake's well. If the suggestion made by one Barrow navigation pretty well from Athy downwards? of the Commendences is control into office on con-2342. Do you know it for many years most !-- For

thirty-five years 2248. Can you speak at all so to the banks of the at all 1-I think I can, a good deal. 2244. Have you observed that they contracted the comes of the river at all !- I did not notice any par-

2345 I don't mean the embankments, I mean the change at all, 2246. Have you observed that may now healts have below Lodge milits at Bagenalstown. There is a small securrelation there since I came to that place. 2247. Only that one island!-Yes, it is opposite 2345 Hare you observed whether the ald coun

whatever. I think they are the very same as when I was a boy. The best channel in most cases runs by there, and the best keeps the same course as it did thinty five years ago.
2249. You are confining your remarks to the outsi I am saking you not only short the canal, but the sires itself also t-I speak generally. I have not death of water in the river. Mr. Churles Houghton (Ardres).—I wish to sak Lord Casersrows.-I think it would be better for

the Ardree mill by the proposed scheme. [Mr. Man-2500. Mr. Hauphton (to Mr. Manning). -Of course 2551. I don't know whether in changing the weir told you it to intended to start from the level of that

2002 As Mr. Le Touche remarked, we have always years ago a miller who had an interest in the river Blackwater, near Drogheds, where it goes into the the upper part of that river he had never so much water agun. The fact was that there had never been say works done on that Blockwater at all, but on sauther Blackwater, and the nalley attributed the

that was not near hise at all 2253. Is the river, then, by decreasing to form a that by saying those questions of degree compos be worked upon general principles. If you take a gollon of water and put it into the sea I must acknowledge it rises the level. Well, there is the other degree, for patting half as much water into the ma will raise it half as high again. These questions cannot

2234. Sir Jone M'Kream.-In those dustries. which have large compensating lakes like Lough Neigh, and the Shannes, which has two lakes. Her Deeg, what is your experience of arterial works carried out with regard to the discharge of ficed whose. In it made or less!—It wards. In some cases it is a little more, nonecloses it is less. Even undependent of compensating reservoirs it depends that dramen will greatly increase flood ducharge in 2355 In that your knowledge of the result to the experience goes.

Mr. Penny —Is there any other grantemen here who washes to give crickene! weir, and that it is a fixed point not to lower the level

Mr. A. R. Versologic examined.

Mr A. E

2256. Lord Castastows,...Do you wish to make a statement !- I wish to say there is a larger area of my lands put down for semement as being herefited then the carermetances hour out I evalence to show the amount of injury done at present which the upper drainings works cart on this 2057. What is it you object to !- The total area of Socied and injured land in put down at 2,054 acres. 1208. There is a great deal of it marked as flooded Do you think that is correct !-- I think it is very

saldeen flooded. The permanently flooded in I think 2229. What amount do you say—for the valuates will have to come and see it spars !-- Lowtown and 2HO. And Kilbery !-- There is not much to Kil-2061. Are those kinds flooded !-- I think they are,

able value. I think it as not in excess.

2254 Do you notice there is a large portion of deep bog marked in it !-- I object to that,

2265. You believe there is no improved value to be put on that !-- No, we drain it at present

Mr. John Gilmov exurinal

5208, Mr. Percebayle,-You have observed great too to the trops since the Deke's welr was done!-\$200. To what townland especially !-- Clansy

\$370. I believe they are only worth about one shird of what they were formerly !-- About that, \$27). And there has been an increase of feeding at those bouses about the Francey river along the

\$272. Up to one foot of water in them 1 .- Yes, and a good many of them have fallen in, in someonemon

2373. Lord Castlewows. — Have the occupants been obliged to heave their beauto b—Yes. when the Dake's were was correlated \$275. And it has been getting wome every year 1-

which was not so bed. 2876. The channel has got filled up 1-Yes, con-

water behind. Have you noticed any damage to the tillage land from the flood !--Oh, it offects any thing near it. It won't allow the drains to work where the had is drained—It foods back.

227% Lord Castlerows.—Is it your opinion that

sunk !- There is no doubt about it. All we want as 2279. Mr. Ferreleys -- Have you not noticed the back water remaining very long t-Yes 2350. And that the chief injury we suffer is from

1281. The land on your form, that used to be a somer too !-Yes, it is a rogalar publis. Formerly would not have a chance of walking it, except a little

bit, you would actually sink in it now 2183 Ser Jone M. Kimara.—Does this had on 2285. Mr. Cassiny,-In that due alterether to the is no outles for the bog river. At the mouth of the no office tor the tog river. At the mouth of the fiver there is mud ten feet high, and no uga of the fiver above at. In some cases Mr. Versahovle get

dams made for the second colution of the tenants, and

sometimes the flood would get over the dam in the 2284 Mr. Batter And was think the finaling was growthy increased by the desirings works carried out by the Duke 5—I have no desht of it, as far as I

2007. I think your engineer was been and gave

evadence as to the effect the main drainage has had on you b— E.e., I wanted to produce evidence as to the vinceresol fissing on account of the Duke's wer

on makestant it.

Mr. Price.—I would like to know what quantity of

the bag is to be dramed. Perhaps the secretary can tell me. The number of series is not given. Lord Communions.—They are included in the drainnge area.

Mr. Price.—The quantity of feeded land is stated to be \$6,000 acres -- a great deal depends on whether

Lord Cartarows —It includes some bog wherever it comes within the valuation.

Mr. Price....But the bog not coming within the Lord Currantows -I think you will find evidence

given on that subject in Dublin See Jone M'Kentin.-There is a large area about Mr Price.—The beg is a most important area for bolding up the water and letting the floods come down

I am not able to find out exactly in the Lord Carrarranx.—The bog is only marked where it comes within the valuation scheduler. Mr Press,-I take it that this scheme would drain

Lord Carragewa.-These is no evidence of that

Mr. Price.—It is a very important question, which I shall have to give evidence on at Carlow. There is no evidence as to this large pounding area of bog bolding up the water, and there is another matterthat the bog may be materially improved and ought Lord Commerows.—Your contention is one which

I see affect that by to morrow we shall not have impertance to what you my on the subject.
The Commission advourced Bil next sky at Garley

WEDNESDAY, 2978 JULY, 1885. The Commission set in the Courthouse, Carlow, Present :- The Right Hon. Mr. BRUES, Vice-Chairman, presiding; Str John M'Kerler, Mr.

HASSARD, Mr. HUMPHREY SETTE, and Mr. Cassilly. Mr. PENNY, Secretary, was in stren-lance.

Mr. Bauer,.....In the obsence of Lord Guelloto Churman of this Commission, an absence which I much regard and which has engagements readered pointed by the Lord Lorstonant to morney trip the is now open here. We are prepared to hear any eve-

dence with regard to the scheme and also as to this district of the Barrow which is below the operations of the selecte and which may perhaps be affected by the works to be carried out. Were there any witnesses Mr. Fernox .- None specially ; but I have got a letter

of persons that they wish to have examined here to-

day, and they are represented.

We Le Seastle ... Will you allow me to sak a ques-Nr. Barrey.—I are more Mr. Manning will be brown tion which orises more or known out of the evidence given

Mr. Minney. 2355. Mr. La Toucht .-- I believe you acknowledge

the value of compensating reservoirs as regulating and 2586. Might I ask how you propose to regulate and control the floods of the Berrow without compensating the river; but there is no compensation by reservoir in the Berrow. There is at present, during heavy

\$337. There is one opposite I would like to ask the provinces of this scheme to error flood gates and

shoots in the first of the partiestion weirs at Athy, or 22:88 I canclude these flood-gates or stokes are for pressure of the flood water |- What wair are you

The Artice weir!-No, there is no such 2350 Well, it was with the intention I constrain of the bester earrying off the flood !- The object of posting shiftees in Ardres weir, or probably in the

welr to be built in lies of Ardree weir, if found ascenary, as to lower the discharging point to the navigation level if possible at that point, and for no 2201. If it was necessary to put sluices into the no question of drainage below Athy. We don't propose to drain any land below Athy, and so to the offset of the sinion in a great fixed of that kind, cased a fixed you need not go further than thus town of Curlow. The large were which scatteres the head water at Shackleton's mill is sourcely to be seen in a food. It is merely seen by the ripple of the water, and in that case you would have very little need of

shion. You would not lawer the Burrow at Curlow, during a high fleed, probably, bull an inth by all the \$393 I think it was in Dublin Mr. Humard asked you the question as to the amount of water persons

Mr. James Prior, c.E., excessiond.

Jus S. Penny, Esq.,

witness named in Mr. Price, c.n.

2294. Mr. Battan .-- Mr. Price, are you prepared to go on with your case !- Mr. Bruza and gentlemen, I have been called upon by various interests in the nations that are contemplated in the upper portion the lower river lower down-and they are quite right craretion-bow for it would be necessary that the drainage contemplated should include also certain works connected with the lower part of the river, The interests with reference to this river, which are

vesterdayet Athy on the part of the Barrow Navioneius Mr. Housing re-examined. over the weirs at Athy, and you stated it would be

extremely difficult to measure the amount of ware that it was oblique to the chossel. Now, the well at Carlow in I believe, oblique to the channel and it also contains theires. Mr. Hassard informed us yesterday given by Mr. Hamard is exact! - I have no tufores tion as to Mr. Hannard's experiments at all I arbon thing to sulcalute exactly the quantity of weitr uses at the weir. I confined myself to that reply in Doblin for this reason. My words were beginning to

be weighted as they are wrighed by you new know that people would be weighing them all along and would say, pechaps, "Oh! there is a pretty and would say, perhaps, "On there is a peetly engineer, he was not within 20 or 20 per cont of the quantity of water." Mr. Hussard will be able to tol \$395. But perhaps it would not be right for me to nok the Commissioner a question !--Well, I can't

Mr. Pressy I have provived the following letter Carlow, 90nd July, 1888. "Dear Siz .- I we directed by the Barrow Draings

I am your's faithfully

Segretary, Barrow Drainson Coscoskulon," All the perties named were served with nation to attend this meeting, and the secretary was informed that it was not the rateation to hold say meetings lower down the river than this. The first

than they were before. I have roughly examined them lands, but I have not been able to make anything Mrs this river. There are several large mails at Levelytown. Bagenalstewn, and other piaces, having considuable interest in the water power, both this they may have a proper supply in commer, and that they use also bendes the owners of mills, owners of very exterraive malt-stores, which have been built confirmed tentive mall-shows, which have been built configura-to the river at Leighbu Bridge and at Corlow. These are stores of Mr. Watson at Leighbu Bridge-very extensive mall-storm—which, if the river should the and flooded. There are also storus here in Carlow-Hi- Norton's stores-and there is, in fact, a portion of the town of Carlow which is submerged at present counts right own that and floods the low ground at Greigue, on the Greigue sole of the town; and in a excitaty point of view, of course, it is very bad at I part mention these things to show the van-tiest these fleeds should not be increased in any is the inserest of navigation, and it has been so aborty say on the subject. Something removas for me no reference to navigation as well se with reference to other interests. The navigation is very superiant to this part of the ecentry. There is a portion of the not at all accommodated by railways, and the radia and stores on the Barrow make considerable use of like an ordinary river in which there is only one or that has been carried out parallel to this. There are no doubt small ones, but the large drumper elabricity of the Barrow-Scalitics which have been mentioned. The Lower Bann has a large compensating reservois at Lough Neigh. The Eran dramage, in which I see engaged myself, has a large erea of two large lakes, University of Lower Lough Erns, in addition to an im-I my that this particular district is unlike any others, bring down the flood more frequently. Now that, of course, is a very much disputed question surray difforest engineers. I have beard versus controve take flad its way down into the channel here into the channel of the Barrow, and that therefore the maxidenation that has to be taken into account, and it is

down the floods so as to be contemporaneous with the Ady 20, 1915. discharge of the floods from the minor contributories For inseance, take the tributuries in this xiver that pare come in between Athy and Carlow. There is the Gross river and Dougha, and the Lerr. These all come in helow Athy and shove Carlow. Well, these rivers are short rivers. I think it is the experience of most engineers that a four days run is about an great a continuance of man as generally taken place in this country. Suppose the four ships fixed water natural to suppose that the tributaries, which are before the main body of the food from the higher flood leads of the Bayew wealt come down. I think From Athy to Regulatown there are 194,480 arres From Burnalstown to St Mullins, there are 88,948 seres. Below 84 Multims there are 64,640 stees. The whole drainage area heing 757,740 statute same. *2294. Mr. Bacus -- It that the estebusest basin can make them out. Of course I could not go square miles. Now, it is quite plain, thut, if second-ing to Mr. Mensung's calculation, which I may say I generally agree in from examination of the place, I hardly think there would be at Athy more than \$60,000 online feet per minute, but more than outputs critic test per amane, on when you come to add to that what comes in be-tween Athy and Bagnelstown, you neight have about 610,000 code feet per minute. The question is, did all that quantity come down, and ran down to the say on certain occasions is might have come down at the same time, but I don't think generally it would; probably once in our or twenty years the bributary supplies may be not by the supplies from the upper district, but I should think that if the distrings is that the waters to be discharged at Bagnalstown would be 60%(00) ruise feet per amounts. This is not se-That was as I know during a very excessive food in 1679, and probably great floods like that will be much more frequent than they have been hitherto. a compoundary reservoir in its present state, I am noder the dramage as scaled lands injured by the flood, which I believe in 23,000 arror. I saled the question yesterlay, how much of the arm of the log above on the Borrow-at least I think up. That was the information will be feethoreing after a sheet time But, suppose it won 60,000 acres, which would not be too high an estimate, there would be 106,000 acres before you. I have, therefore, gone over the whole of

Mr. James Pres, 6-8 the river, and taken countings of it, and examined the different write and the means of duchstatus water. and would say, generally, it is wolf known that the depth and waith, but one might say that a great deal of the river is about 150 feet wife, and four or five the land. It is something about that at Carlow, Thur day it is very low. To-day it is two feet four to the top of Cornwell Query, and of course at steads to reason that the fixed might come over that, and might fixed the places around. Of course the thing to be by the operations perposed. If there is no measure of fiscoling, and if it is certain there will be no the flood, we will be only left as we were before. There is also the question of the bridges, but that probably belongs more to the Gennty Surreyer. I have taken the measurement of all the bridges the whole way down. The first bridge is, Horse bridge, and that has to be remodelled, so that it will pass the foods. That is up at Athy. Then there are many other bridges where, from the depth of built-probably Leighlin bridge and Royal Calc writige, and Milford buildge. No doubt these will be this is a matter for your consideration, whether this increase of floods many sensi such a charge against the bridges that they would be swept That of occuse hange on the main question whether there would be greater floods and more frequent floods than before. Besides, on the river throughout its length there are a great many minute and other obstructions to its passage. In looking over the Ord-nance maps published forty years are, I was much which above now in the river and which did not exist at the time these Ordnance maps were made. I conclude from this that a good deal of silt has been eseried down by the Escrow, and I believe that the present. But everyone will admit that in the first stages, after drainage has been completed particularly locable amount of silt carried down into the Lower rushes with the silt collecting on them will no dealt collect more, and therefore I think that may draining of removing even the possibility of any increase of fixed or of community increase of damage. What these operariver should be deepened and those blands presoved In reference to the managation of present parried or through the river itself and though the earnl or cernot in it the upper part of the reaches would not be

apper part of the reselve and if the alope was not to the water-that is if the quantity of water was diminished to any great extrat, I would say that the taken the depths of the stile, and the stile of most of the resolver, that it relight be made navigable, even with a loss quantity of water in minuter. The question new arrises, will there be no good a supply of water 100,000 acres of spengy land partly flooded and partly spengy, now takes a very long time in delivering up the water and thus it keeps the water sunds Barrow very constant during the summer. Last your was an unusually dry summer and the water certainly not have been more than 10,000 cubic feet a minute. being so thoroughly desired that in fact there would be no water remaining in it as a reservoir in the sumtity running down would be very much less, and if it of the upper easts of the different reaches also in considering what works ought to be done-there in the paration of the weign. Some of them out not tacked to them might be lowered at the same true deepening the bed of the navigable channel. This will be self-exident to anyone. There are a cood range of flood or greater ramfull would enable it to be run deeling movely with the upperpart of the river without not gone into the expenses at all. I do not wish to improve the land that it agulies to, but that it also learners the whole climate of the district around. I be no drainage-off they want is that their portion of should not be sent down which might be very much might evene very serious demage. There are several I might have to say a few words. I shall be very happer meanwhile to answer any questions the Com-2195. Mr. Manning.-Might I sak you where the

happer recenvibile to autrore any questions the Conmissionness air. In all you where the 2165. Mr. Afforeiving—Might 4 ship you where the paint into which you may be a first of the Energy paint into which you may be a first of the Energy town. Mr. Crecilwater, of Engenistown, tells use that that you the multivact leed shown the white invent that plots, and I could not consuly make out the questily, but I thank it was above capit or the thermal rather feet in number. It fool is measurement of some of the ways on the efforce high the re-

2896. I only want to know the point !-- Well, that on the Lettle Brosna, will be examined as to an instance of how the floods are brought down more rapidly at his place. There were two tenheturies

food sunning off before the other; but since the Lord Castlerows.-I think that is an incidental west that perhaps we might inquire into presently,

subject or get any information from him he desires with regard to the statements he has made ! 2007, Mr. Manusing (to witness) -The first quesrice I would sak Mr. Price then in this-yee see the whole foundation of your statement is based upon the fact—whether it is a fact or not—that the fixed dis-

clarged at Athy would be tacreased, and you apprethat ingrease !- Not at Atly. I think ! said that I agreed with you to a great extent so to 2216. Well, have you made an estimate anywhere t

2599. Why !- Boosuss, I think, that you cannot take more then half the supply of the tributaries as adding to the food centing from above Athy. There are fore. I have only taken 100,000 cubic feet as coming from the tributaries, in addition to the 400,000 at Athy. I think, therefore, that the increase will be

4300. You stated that there are two or three other rears—the Greece, the Deogles, and the Lerr, between meers have been improved, and that they should according to your ides, that a quantity of water is

2301. If they have been improved, the water would come down more quickly !-- Yes I bate my idea on four days rainful, and on what Mr. Roberts, one of the Commissioners of Works, one recepted with rement to Lyngh Ernn. He give and after about four days the rain generally moderates. place of the same time over the upper part and country which the ram-water will come down from the upper

flooded hands have in forming a reservoir for the floods. Asym, 1817 nearly the same-\$3,000 acres which are called scaked 23,000 acros. I would wish you to explain to me how are naturated with water up to the surface-that is suppose you have a bestn full of sand and pour water into it until it comes up to the unface how

will you make that a reservoir for floods 1-I admit 2305. Well, these lands are maked and asturated and you chine those hands as letting got water in

they me shouly saturated !-- I den't think they are always entirely saturated—I think they dry to a certain extent; I don't think they are always fully 2304. Musta't they be estimated as the food rises?

2305. And before there is any fleeding-ony con-

2306 And therefore they cannot act an reservoirs? 2307. Then, with regard to the begs-100,000 sore, if they are above the level of saturation and spongy, will not that spongy soil remain, no matter what, you do with the other hand t... Well, I sion's suppose the bog or what is put slown for bog is

entuely bog. 2508 But you have netwelly given the measure ment, I think-you stated 106,000 seres as if by measucceed; now do you really maintain that which you have put forward in respect to those bogs I—I did not my the quantity exactly, broase I could not get the information. I saked for it yesterby and was not

But 100,009 seros means a general statement, whereas you gave 100,000 screes as if actual measurement t—It was only a guest. I saled the question viotersky but was not informed as to the

2310. You say it is your certain and decided opinion, that at Bagnalstown, the river won't be Barrow-isn't it evident that the river is not suffi-

2311. Therefore it is quite obvices that whatever

2312. Then it all comes back to this ;--that it denearly upon the increase of the discharge of the Bar-2312. And it is morely a matter of your opinion that it will be more and—but you don't know how

2314 There was one other thing that I was maker 2315. Do you think that there is a surface inclination of one foot per sale in any of the river navigation between Athy and Carlow !-- I have got the

2316 I would get it to you this way—you have stated, that now even, at Boguslatown the number disphage is only 10,000 order test in a minute—if you have a channel on big as the navigable channel of the Barrow is now, and if you have one feet full of of the Barrow to now, and if you have does seen and or nurface mellisation, don't you think that the discharge would be a great deal mass than 10,000 cubes feet in a nuterate 1—It is not 10,000 now. Take it as Bal-mant, below Carlow,—there the river is almost N 2 2502. Wall, we will pass from that and go on with your statement, with regard to the effect that the

3317. What is the size these 1-Well, I cannot tell you exactly the size. I can tell you the fall, now,

2518. The full is no good to me except you find not the cross sections as well, you know that well!—I cannot give you that. These are the falls which cross—I american got six inches in the mile, sometimes one foot in the mile where there are great diminished pretty weach in the upper reaches, and the river is allowed to fall six inches below what it is now, I should if it could be used for navigation purposts at all. Some parts of it are only 3 feet 3 knahen

door, and the boots can with that water only just surspe slong. If you reduce that by six inches you will exclaimly abut up the navigation. \$310. There is only one other question-you say you approlend the improved asterial dramage of the

2320. Will you kindly tell me your resons for that i -My reason for that is simply, take weather like what we have had or what we are having now. think the whole of the ground would be so dry, at to absorbed by the ground which has been desired,

nowce to draw by alutices from a great depth. 2321. Will you give me may one instance of your knowledge of that effect i—I excuse at this recovert—

2522. Can you tell me the quantity, the time, or

2723. Sie Jone M'KERAIR-Have von any por-2324. Mr. Hassann.-In the 10,000 orbit feet per

minute, which you state to be the discharge at Begnelstown at the present time, the result of actual 2025. It is such an extraordinarily small quantity

as commerced with other similar districts that it limits me to ask the question !—It is from information given to me by Mr. Couthwait, who has the mail there, that I have some to that conclusion. He stated that the whole of the river last vest work

choked up; it is divided into several channels, the calculate it would be about 10,000 cubic feet nor

1316. That was last year !- Yes. \$337. And you say that the drainings of the box would be likely to decrease the supply in summer!

2328. I have a report of the Commissioners of 1851 before me and it gives the exact area of beg. 84,855 nores-and that, you my, note as a sponge giving out

that be two or three feet of greater depth of spongy land above the water level L. You 2329. And would not that increase the cutire ground storage !-- What I mean is this-that the whole owner. I have no doubt that it would have more spenge, but the whole quantity would be disined of

more quickly !- Not more than off clay. I think the note outdry to see more take of cay. I take the bag being of a spongy nature would held a quantity of water. It is different from elsy. \$331. But would not six or eight feet denor har

2352. The storage would be greater than before!

-The storage would be greater than before, but the
water would get off quicker. For instance if you

2335. Mr. Baurs .- A point was relied about the three rivers between Athy and Carley—the Greece, the Dourles, and the Lerr-and the question was

Mr. Hode.—It has not been unproved Mr. Bacan.-I believe some works were done on

Mr. Hask -Yes, in a few places, but not gene 2334. Mr. BRUIN (to Mr. Price)-Have you say the different points which you have not out in your of a river-one branch of which was drained and the

Mr. Simpson H. Breveton examined. 2335. Mr Bacres.-Tell the Correlation the porticulars of the case Mr. Price has just mentioned!for then. I am living in the place to which he refers 2316. Mr. Sarre,-Where is this drainnes you allode to !—It is five or six miles from Parsonatown—the the King's County. That was dramed first. It used to pain my place. Then there was the Riverstown dramage-what we call the Bressa draigage. Too water of the Caetlebernard siver used to poss by other one came. Then they dramed the Little Browns.

up at Riverstown and took away the mill-dam. I was was there on Saturday and improted it and walked in the mill-race. They dramed that, and then the two rivers came down together in a great torout. They have not done anything to the lower and adjoining the have banked some of my callers five or sex feet. Well, water. I have had my key really to be cut there us; was a Commission sent down, and I was examined before the Commissioners in Baragher. They wanted to great us £150,600 on an area of 18,834 seres in sight counties, with 7,000 in one and 500 in another. I proved to the Consumstances it was not the Shannon injured as at all but the Bosens. They valued me at gis3 on 81 Irish serva. g153 on 81 Irish serva. They get on a valuation of 44 Ilal on my land, and for the improvement they contemplated giving no they put down 12s. 5d an 2537. I think I must stop you going on with that

has of evidence. It has nothing to do with what we are inquiring into. The point I have to sek you shoul or solunquent to the despening of this giver above or no second to the deputing at this liver store year. I have brought my mendow book from 1875 with me. The mendows which I art for 84s in 1875, and in 1876 for 90s. I have lost almost ever since. In the last ten years I have got searcely saything out

2018. And was the drainings you speak of made at that period—ton years ago !—It was, and over since the state of thrage has got worse and worse. that I get myself eight years ago for £34 was set thus year for \$10. Lest year my see had to cut at but it had not been cut for three years. I had before that given the genes to the country people to cut it away and make dong of it. This is only to show that as the lower part of the rives was not done when the water came, it came down on us. There was one instance I know-and I have a man who can sweet to it as a fact. In 1877 he read £12 for the first arm of principle. It is nothing but reades. It was Mr. Kinshan's property, but it belongs to Mr. Bolton now 1339. Ser Jones McKanna.—When did you fast

observe this ingresse of floods-floods which in one you town river was desired. The Castlebernard river was drained about 22 years previous to that, and leads which were not at £3 10s on nere by the year have been cut only once or twice since in consequence of the lower end of the river not being eleaned, though there is plenty of full. 2340. But it is not the question of the lower and of the river at all. You attribute the injuries you reselve to the two districts the drainings of which has

been carried out, bringing down their fixed waters simultaneously !-- Yes 2341. What year was the Little Brome drained !--

2842. The Castlebensord district drainage award was made in 1858, I think?—I am not uses. I think it was in 1870 the Bremstown River Commission ast. misseners at Athlene. 2343. That has nothing to do with the point. That Occasionian fell through-nothing resulted from it.

The evidence which you give is as regards the waters relitationally opining down t—Yes.

2344. Mr. Bayun.—Toure is a very long list of witnesses here. I might suggest it would be an unon perhaps can or two points. If you could select our or two, or more as the case might be, you could not might snower all your purposes so well.
2345. Mr. Price.—Mr. Haughton has the manage ment of this matter, and he suggests that Sir Thomas

Betler might be exumined as to the murased discharge occasioned by drainage.

Six Thomas Butler examined. \$2546. Mr. Prior.-Will you kindly state your I was asked by the Committee sitting at Carlow if I would take any part in this. I replied that I was in-termed so much that I believed if a large moreous of water was sent down without cleaning or improving the bed of the river below Curiow, both I and my tenants would be injured—that their lands would be here decay flooded than hitherto. I happened at I weered this letter to be staying in the property. He was a lower properator circumstanced sustance moressed damage by the upper part of that arer having been drained without the outfall bring deaned or prepared for it. He informed me that the people there were obliged to make dama to stop the propered for the upper. When the floods came the dense were constantly swept away before the bettern stimsted at £17,000, but by the tone the drainings

Government only taxed the district to the extent of £25,000. That being the case, I mentioned these Stote to the Barrow Navigation Committee in Carlow and they saked me to attend here say state them. many based in a to interm arre and side betts. It may thing I have said is incorrect, I am our Mr. Manning will correct me. The rever I alimit to in the Glyde, discharging at Amerganen, and Mr. Manning

was one of the regiment, and the Manning was one of the regiment, 2347. Mr. Morning.—I was, tir—and I suppose Sir Alan Bellinghan was your informant !—Yes. 2348. Well, he is a great friend of mine, but I don't know whether you cought the meaning of what he soil exactly. I would not like to my anything 2349. Mr. Bayers.-I stypose what you wish to

course were adapted here the lower part of the Barrow ould be hable to be subject to greater flooding !-Yes, my origino is that my tenants would be greatly

2350. That is if week a thing is done?-You. My

Mr. Proferick Haughton examined.

2351. Mr. Price.-Can you inform us what your experience has been of the floods in the river Burrow at Levelstown !- I live there for 38 years. In the old three days for its getting down. In the last tive years I have known a terrific food to come down in 12 food was brought down from Rethangen Dreinage.

the catchment basin. In fact, the flood was up 4 feet in 12 hours. I know that by the back-water to the tail of the mill-mon.

2302. What year was that !-Oh, it was within the 2553. You don't remember the exact year !-- No .



2854. And that was principally from Bathangan Draining that to be the case.

2305. And since that time have you observed the sixing of the floods to be more radion than before !--

2356, Sir Jose M'Kenzin.-How were you then sizented to Between Margerny and Athy, nor Task-arcistows bruge, four miles from Athy. In fast, the bod of the river is utterly anable to carry of any food.

2857. Do you remember the date of that remarkable flood you spake of b-I do not. It was within five

2553. Was it, do you remember, in September, 791 —I could not say. It was phatever your the Rathangua Desirage was completed-it would be about that tune. 2309. Mr. Price.—The greatest food we had in Lough Bose upon 1879 was in February, 1881. There tough ness since for a wax as accesser, 1881. There was a ramfall of eight mehrs previously.

189). Mr. Conroly (to sesters).—Was the Rathengen Desirage finaled the trees you speak of 1.—It

was only on making inquiries from Mr. Welter Tyrrell, 1961. Are you aware there are several stoppages between you and Rothingon !- There are only two wests.-Aidres weir and Athy wear. 23dl. Do you know where the flathengen in

The bridge at Royal Oak has not been so skalt with,

is would be incapable of being under-pinned.

It came down brown and muldy, such as I never eitente !-- I om aware it is very near Kildten. I have

no personal knowledge of the river there. 2043. Mr. Barres —But you mentioned the time is teek the food to come from Rethangen to your mail t ... 2034. What ground have you for supposing it took that time !-- I remember the time the rain count, It

I estimated it to be at the height of four feet 2365 Mr. Price,-How long did it take to rise from happened in the night. It was the colour of the woter 2366. Mr. Hassann.—The food from Rothsogan das

2367. Do you think it would have flooded up that

2568. Then what you say is only supposition b. I 2309. Well, I covied out the Esthenson Desirant.

Mr. Edward T. Quilton, c.n., examined. 2370, Mr. Barus, -I believe, Mr. Quilton, von river at Milford, is there not !- There is, but for that hars been directed by the Great Jury to astend here the bridge would not be able to carry the water. and give evidence before the Commission 1-Yes, in 2373. What is the water-way at Royal Oak Bridge!

About 145 feet. 2374. What is the depth of the river at Milford 1-2375. Do you recollect the flood in 18791-The water was very high about that time, I remember. I don't An Searces of the flow of water coming down would

compace it to the Misossippe thick mad-

know the exact date, but the water was assely up to the erown of the orehes. If a cock of lay or the trunk of a tree were to come down, I think it would the adjusting bands and roads. At present a considerfinish the bridge. Wilford and Leighlim Bridge is covered in food kime. water flows over the bank on the north side of Leighlin county works—the three bridges you have mentioned

Bridge, and at times round through the street, and there was any increase in the height of the Leighlin Bridge. 2377. Mr. Hassann.—It depends on the question food, the urgary to the house would be very considerable. The bridge at Langhilm Bridge is as to whether there would be any increase !- Entirely. a very old one. It was originally a narrow bridge and has been added to, and like most works of the I did not go into that. 2NS, But say thing that would prevent the silt coming down would be an improvement !—Yes, an it exists in the reshes.

2379. Sir John M'Kunire.—Are you aware if say public record has been kept of the height to which the water has risen at the points you speak of !-- Not other bridges. If the bed of the rever was elesced at on behalf of the county Leighlin Besign, and the bridge put into good order, the water-way, I think, would be quite aufliamit, but at present the inheritation forming above and below 2380. No record knot !- No.

2381 Mr. Hanara,-And I presume there are no rain guages !- No. 2382. Mr. Barry.-Oh vos. there are private onto

(To Mr. Le Touche) Have you not got at your offer in Carlow a record of the height of the water!... You the over, the pland on the north or un-eigenmedia-2383. Sir Jone M'Kenne.-Yes, at the time Mr. 2171. Within your knowledge these islands are in-

Haughton speaks of, in September, 1879, there was a true of two feet at Bestfield look. Mr Hareann-That was two years before the

creating near the bridges. Can you give us any informa-

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ridge

Ne James Bolger

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2384. Mr. Barux.—I believe you have some infor-castom to give wa with regard to the fooding of the gestion to give an with regard to the Doomig of the giver near Bostfield !—I know the river between

Marcoy and Jerusalem Bridge I recollect the time the flood came on suddenly, that Mr. Houghton speaks of It was refning all day, a Sunday; we had the hay out, and I said "We will go in the morning and take the hav away-it takes there days for the flood to rise." Well, we went to take the key away in the meeting 2385 Mr. Casarry.—What year!—I think it is about four years ago, but I cannot exactly say. It was four or five years ago. The place was should gurry year except had weer. The meadows were not

greety year fraction man year. And manufacture were man out for four or five years except has year. We can the hay in the end of July host year enticipating fixeds in August. It was a dry meson, and the fixeds fill not come down so early, but during the four or five years previously the floods came down much more

2396. Mr. HASSARD.—Are the mandows you speak the Grocce. They are between Mugeny and the

2387. Mr. Surru.—Had you had much sain pre-

Mr. James Byrns, of Newtownpileworth, exceptions,

vious to the Sunday you speak of 9-No, it was only rain was never known to corse the needows in that of the river I thought that might have been the cause,

Mr. Baum -- When do you propose to have exarrived next, Mr. Price? regard to the flooding in Carlow.

Mr. Hauphton.-The other witnesses will be with Mr. Proc .- There are circumstances connected with storm of Mr. Watson and others, and I think you

ought to hear the witnesses with regard to the town Carlow particularly. 2388. Witness (Mr. Byrne).—I think the water of the Barrow is higher than the lond offelding,—where your land, Mr. Brenn, adjoins mine. The wear throws Magazy up to the weir. The water coming up to 2589. Mr. Burges,-That has nothing to do with

Mr. Jones Bolger examined. 2390. Mr. BRUES .- Do you wish to give evidence for years, so Mr. Houghton remarked, I have noticed the floods rise very repailly even when we had only little pressure of rain, sometime in April, and when 1881 or 1882 we had either one or two days rule, and the flood came down very replify. It was on a Well, I attribute that state of thesps, as Mr. Haughton fal, on making inquiries to the partial dramage of the near up at Rathwagen. From all I can form that in implated by this scheme to be carried out.

2391. Have you observed an increase in the rise of -Oh you, they come down more rapidly. Jant as lit. Haughton said. I used to have time to consider what was to be done, to look about me. I had occufam to get the own housed aftern or sixteen years up when we had a flood. We had, I remember, a very large food some your ago. It was running for a week, and the greater portion of the district was they have been so ever since. The houses were sate rated with water for a month or an works, but still the people strove to live in them by using boards or these poor peoply, many of them, slept with the water steadly under them. 3392. How long ago do you say that was "—That was in 1878 or 1879, seven or caght yours ago.

fact that you believe there will be an increase in the done littly, and that if any general draining write carried out without making due providen for the ext-let to carry it away, I believe it would scricually in

2314. Mr. Hassand - How long after the rain, on the occasion you refer to, began to full, did you observe the water on a level with the quay. I am speaking of that particular flood 1—Yes, in 1879. think it was not more than twelve hours or so after the rain count In fact it was driveling I might say at the time the fleed was raring. 2005. How long had it been existing before the fixed

rose to the level of the caping of the quay !- It was 2394. But how long lead it been reining !- I think

about, perhaps a comple of days-not more. 2397. Mr Bruzy -- You mentioned a flood fifteen or states years, and easther of seven or night years ago. In order to have your answer clear, may I sak you was there snything remarkable about that fleed sixteen years ago! Nothing remarkable may more

3398. You wish then to draw the attention of the Communion to the difference of time which the fixed

2319. Mr. Price.—What time did it take to rate it last April 1—It was only mining for a few hours, it began to run in the marring and after a few hours rate the river was nearly brindfall.

2400. Mr. Brown -Do you hold any land m the

Mr Junes

neighbourhood of Corlow !- Yes, on the banks of the Barrow, on the Queen's county side. 2407. And is it imble to be flooded t—Before I had it in my own pensonsion, I have seen three feet of water in the lasy there. In the flood of 1879, there

were three feet of water in the lay cut in the bottom.

I was afraid to run the risk of mosdowing it may more since, for I would have to get it out before it would be fit to be out, for fear of the water convey.

Mr. John Killy, expendently

user. Mr. Brunn.-You have been resident for a long time in Carlow 1—All my lifetime. I recollect the bruign and below the river too, all these telepole or nearly all of them assummated within my own memory. I think the idends at the query are not store in the year 1854. There was no solid ground or has deprive the bridge of the power of properly enzying of the water. There are only three arches in the bridge than eat carry off the water. Some of thom are idle-one from the abstract of the old bridge, and another from the taland being in front of orings, and nequalitied with the peer people of Graigns, for a number of years, and I know how work they suffered from floods. For about a mile and a half on the Graigue side there are hottoms which are protected from the Barrow getting into their by conbankuncuts, but when the flood breaks into this low lying land, it fills up like a pend. From the town mile and a half. The water has to get away through nower about two foot square, and it takes about a month to get away after the river substilling. Sideres lenks but in 1866. There were over 100 her fixed of 1879, in that particular district. In fact rate to 2s 10s', just double. And a great deal of 340%. Are you afreed of an increase in the floods if

3404 What is the ground of your apposition that fortnight or three weeks for the floods to come down,

3405. Have you observed our morrows in the floods lateurly, since the energying into effect of annall drainsuch in the rapidity with which they rise-a flood day and a night or in two days

2407. That is below where the Berron fulls into by Mr. Manning at the commencement of the reato explain rt-for the hand is choked in behind the woor like the neek of a bettle. If preparations were and if the bridges and the blands were cleared away we would preer be troubled with floods to or near the

2408. That would be a heavy expense to go to, to charaway the bridge !- Oh, I speak of the plands cels 2409. You consider that the salands farming before the bridges contrast the water way very much !- Not only that, but they send the water into different

Mr. Hamphon.-The only other witness would be

Company's does not confirm that, we could give evidence

shown on the Ordnance Map. Mr. La Toucic.—We have maps unde in 1811 3413. Mr Kelly-I came down the Barrow in two were the water was driven ever the banks, even the

easy to see what was causing the obstruction to the islands now in the river which are not marked on the

Mr Price.—A great numbe 3416. Mr. Hattin ... If Mr. La Touche would cus-

Mr. La Toucke-There are some places above the bridge of Carlow called selands which are really both of order Mr Kelly meaks of them not having existed that they existed forey your ago. Mr. Kelly says they were caused by "selline" being planted their How could sallies be planted there unless these were

2415. Mr. Price-The toland above the bridge of Carlow as not marked at all, and there are these identify

Mr. Frederick Haugiston.—They were cannot

2417. Mr. Bavus, ... I think you refer to the island above the weir, Mr. La Touche!

Mr. La Touche - Yez, above the weir. eals. Mr. Barroy .- I think Mr. Kelly's observe

tions spoked to those below the well Witness (Mr. Kelly) .- I spoke of those both above

and below. I can only speak for thirty-one or thurty-two years. I think is 1834 there were sallies planted

Mr. Javes Butler, of Leighlinbridge, enumined

2422. Mn Baum .- Do you live at Leighlinbridge ! "Yes, I am the partner of Mr. Wasses in the Mill-

see amill, but they are marked.

2420. He. Lu Touche.—They are very small now.

2421. Hr. Hemphica.—And they are not marked on

but no water ean go through the principal arch owing

2424 Bra you were decied within six inshes of the water coming into you !- Yes, within six inches of it. We have recently laid out £8,000 in building there. Thus would be atterly rulned if six inshes

\$425 Mr. Barran,-Cun you tell us about the floods In Lightlinbridge—have you dring the last few years in Leighlithatidge since 1837 or 1838 At that tems there was no obstruction to the treffic of the boots. there was a very good town there, but Leighbaltedge would not rise so much. It would give an outlet of

Mr. John Noton, examined. idand, you the church, to let the water off, but that for the water. I helieve there is not a bridge on the be carried owny. I have noticed street the works the flooding I would naver have gone to any expense

Mr. Eaguel Crostheasts examined. 2495. Mr. Banus,-kindly mention what evidence careful away by any ficod, so that we had to rules it we in times of flood have to being out all the weights

at mysect...for instance, though a semiget such to seem distance below the Royal Oak Bridge. It is not alone that we approbed the high winter feeds, but also low water in summer. Now, last summer the 2425. You meak of the possible less of power to

We four the some with repard to the Barrow, should



We carreless you over \$3,000 per camen to the Navigation Companies alone for freight, and many

Mr. Watton.-All our stuff is carried over the 243). My Baues (to witness) —You are acquainted with Bagushtown t—You. I don't think the town

their would be injured. 2431. Is there a lower part of the town !- No ; the land ; see from the river to a higher level. We have a good skal of land flooded. The great obstruction below as is the Royal Oak Bridge arches of the bridge, which I believe is quote unable to bear any mass strain than at persent.

\$432 Mr. Hassard.—You say the water was very

low last year 1-Extremely low.

be dried up; also if the navigation were affected in gave some most ratement of it to Mr. Price this morns

> 2453. How many pears of stones were you able to week !-- We have foreteen onto of reliers at present,

2435. And what was the fall of the water !- About fall of the wheel is a little more than that wheel !- The disanctor is 23 feet, and the width 16 feet, so fooding would be, we think want of power in

Mr. Patrick Moler examined.

requires for his drainage above Ashy is 160 feet wais 2438. Mr. Battan.-Do you propose to speak of the so on; but I would say that the average would be about 3 feet. The with varion from 110 feet to 2444. Mr. Munceley -There to no use in giving

the wear there is a sudden full. If there was a They think that before saything is done, that the

and if you wanted to get bette the velocity, you should make it 8 mohes, and the result would be only a rise

the other to 1881. I know them to ruman on the are rest convenient to the budge, with reales and

> 3439 Do you think the flood has increased of late 2440. You live a very long way down the river

persont, will, I have no doubt, if more water comes down, be covered.

2441. That depends on the question whether the

bid in med lovel redge a a new month of the page

2442 Mr. Price-The secretary of the Barrow and we have made a number of countings. Here are

2013 Unite which bridge !- At Tunkschtown harden I have I foot 6 inches and I foot 8 inches. have about one hundred sometings in that particular foods into that river, when the channel Mr. Nagaing of 6 inches in a great flood which discharges double the smantity. Therefore it is not right to say it would increase if to much!—I said it would increase it in

2647. Is it not the mean hydraulic depth that in ingressed 1-Yes. 2648. And therefore the velocity would increase!-

2649. And therefore the comparison you would make now is one that you and I would like to coter into by corselves — I ski not my what the properties

2450. It would be more mitighetory if you would give the instructions in the circumsts-for otherwise it

2451. Mr. Barren,-The whole question we are inciring into here turns on the hypothesis whether Mr. 7466 greater extent and more frequent? More frequent freeling would certainly be an injury to some of the property you represent, but not all flooding would not occasion my difficulty or damage to the malt storm Mr Watson halds. It might do so to the mills and mangation, and it might do so, and from you, Mr. Price, on this subject. My hrother operoon that there would be no immesse officer in the

Mr. Mouning re-miled.

\$452. Mr. Barran.-Will you kindly give that ex-

was rused. It is all a question of dagron, and it can year's end to year's end. I have found ten years' ex-perience of the man at Tulkenane to be twenty-cight

ii) that would amount to 8,000 solue feet per minute for the semant ducharge at Carlow. Mr. Price and it with him is that Well, now we come to what that freet of fall. That is what I call the mill power of the or more instructive boar in my life

\$454. Mr. Moserico .- I took the measurement from 2035, Mr. Hassann.—Carlow lock is under five 2416. Mr. Mussing -I measured three feet free

9457. Mr. Hassann There is a nine inch bound at

24NA Mr. Messawer - Yes, I took the difference was measured by myself in the look. You were quoteculation I had proviously made was about fifty-five

Mr. Manning

Acceptover Lengthon this because I think the million should be centained, and that there should not be excessed, and that there is the control of the con

sent neigh inthe above with a property of the color of the color of the decimal that the def His whest every free the flow change the def His whest every free the flow with a line of the still in the summer means, which is the color of the

as a matter prime of every days of the part with the beginning of the part of

power, which might be stored or transferred to distant points. I have matching more to may.

24-07. Mr. Hausens—You mentioned the rainfull at Tallamore. Have you got any record of the march team monthl for the year—Not here. I think I gave that evidence in Dublin.

2409. Ext. Journ McKangas.—With reference to the

would be no lowesse in the discharge beyond the remark around of the flashe in well weaker. The other point which has been so much dwell upon a the probable or possible discharged in of the commer flow of water. There are no or two points as which was always to be a supplied of the contract of the commerlation of the contract of the contract of the 2-61. With the exceptions of a small portion of the Dorthwest-There is part of is that and part of it

2402 But that being the one, and reporting it as a fin fintret, excepting that small portion, would not the result to that that flow of the water would be very slow!—Yes, that is during floods through the flooded part 3 would be slow, and in a presquirous part it would be quick.

2463. I pressure that she physical feature of the

Shrinit is case of the grounds on which you has your opinion that the maximum distance would not be necessed in floods 1—The ground upon which I has my opinion that the mechanic distance would not be sensibly increased in this, that the install quantity of hand in forecast on this, that the install quantity of hand in forecast from the desire, sweat to so imagness that it would not give any sample maximum that it would not give any sample maximum that it would not give any sample maximum to the duckleage.

2464. Here, you at all estimated the amount of much library, though an undo not a half in 24 hours, how many hours minfull would be sufficient in faced the hand to the ordinary management—I have an be made to the cordinary management—I have not be inseed to the Coremannian and information on that shaded to the Coremannian and information on that salelyst. Would you say it would be more that the local state of the hours after the norm hand faller—would you say the

that subject. World you say it would be nose the 28-bonn after the norm ind fillen—evenly you say the lands would be fooded within that that, among that they are shored yo so the politic of their severing level 1—1 sould not give any ordinant information or that subject. The loy of the whole shariest in at Bortis-Yes, pt.A.My, Bers, and Monasterowa.

Yes, ed. May, Bert, and Monasterieva.
2407. Assuming the obstrandous are lowered at
2407. Assuming the obstrandous are lowered in
2407. Assuming the obstrandous are lowered in
2407. The second of the second of the second of the
2407. Assuming the fooded hand to a depth of the
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2408. But appropriate the power of duringset its part
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2408. But appropriate the power of duringset its part
2408. But appropriate the power of duringset its part
2408. But approximate the power of t

duced to a depth of four feet, would not that give capacity for bidding up water to that depth, sourced the hand to be of a poorus or moory rathers—U directively. 2169. And would not that to a considerable days compensate for the less of fixed water—Xxx, we deriteatly—be incomend one and depth of the rive

foods, weald give a quantity, that I work may be into the probability of the I work may be into the probability of the I work and I was a subject to the I was a

give it can by dagrees in a dry maxim!—Certainly.

2172. And therefore contribute as the increased
the sensors capply!—I have no death at all upon
this, that all thereogh dramage and arterial dramage
would increase the low number supply of the rave
In my mind there is no death of it.

2462. And that for one of the grounds, I pressure

the In my mind there is no double of it.

2472. And then to one of the grounds, I pressure
on which you may the manness rapply would not be
first diminished to Certainly, not then I claim is, buil I do
to sty on an positive solution fine.

2472. Is that the result of your experience we
regard to drainage districts which have been laid
regard to drainage districts which have been laid.

regard to deminacy difficient which have been likely convenient to the control of any experience for any experience for any experience for the control of th

a deposit. If you allow it to continue year after year without clearing it you must expect a deposit
2676. Mr. Seiser, With reference to a runs which Mr. Manning has made, to the effect that the

2117 Mr Proce (To Mr Manning)-Supposing

2479. Within a day t.—I won't make any absurd goes. You give me a quantity of eain —see and a left inches—falling on a varied surface, a varied and then arrive in Carlow, it is manouable to snower

2480. But you said that all the usin which fell won't go into the channels?—In tune. 2651. And that what fulls on the top would come

2482. I kept for many years evaporating gauges will bring down the water very rapidly into the well It toems that at present the fised at the Upper Bassow additional rain came on, that rain will come down so

rapidly, that the arthusories will not have time to run. Just to see, see, off their water before it smoots the other, as at present Mr. Mannier. every engineer is aware that Dr. Dulton was a good evidence generally being that the lower tributary floods run off before the other. I den't believe so,

2486 Mr Price.-I admit that I don't think it

2685, I don't think the flood will be greater at \$450 I think not 1-That being the case at is coding

done down there—the machief will increase the further

2483. Ms. Greethous —I wish merely to corrobo-mia what Mr. Prace and the other gratheness have

2450, Mr. Harrix.—You only want to protest in-terests that might be possibly injured !—That is all.

FRIDAY, 7TH AUGUST, 1885.

The Commission mat at the offices, La Touche's Bank, Deblin, at soon

Present .- Lord Costarrows fin the Charly: the Right Hon, Havey Bauer, D.L. Sir Jose M'KERLER, K.C.B., Colonel CARDEN, D.L., Mr. R. HERKERD, C.E., and Mr. CARSIDY.

The Secretary, Mr. PENNY, was in attendance. The next letter was addressed to Mr. Commissioner

Mr. Perey said-I have some correspondence to read. The first letter is from Mr Herson .-* Dramabaire, County Leitrica, 20th July, 1880

Mr. Fenny - You: an follows :-Coolgague, Rathuryes, July 19th, 1885. "Humphrey Smith, Esq.

"Draw Sex and one of the Convolutioners recognized to "Year electron servest.

The next letter is from the Messes, Townshead, who age here to give evidence to-day. It is as follows:-9 15, Moleswurth-street, Dublia, "Barrow Drainage Consolution-General and

*Dean Son,-With regard to your letter of the 6th inst. Issue Chemp was returned as the owner of Goolgages

17. Eugrald-street, Doblin, "Faithfully yours.

"P.8...Of course we offer no opinion relative to the proposed assument at present." The religible at Partiallegian for 20 years, from 1865 Index

1865 43 943 30 710 23 001 30 866 30 000 26 138 23 001 39 050

Next, I have a letter from Dr. Burke as fallows --* Wittiker's Hotel, Boolevard de Waterlon,

"Sen. -I have the honour to acknowledge the specipt of

nee a very ambitis serious rices ser entailly collisions the serical leves through which it peaces, more particularly those of Mountanillate, Porturington, Meanterway, set Carlow as specified in a special report of mine such as Local Generalment Board, I think, in Navember, 1983 "I remain, siz, your most obeliest server *T. H. Bensu, "Molicel Imposter, Lond Government South

any charge for nonstaneous of devise gu-

Lord Capturpown.-You say the Mestrs Townshead Mr. Pouny,-Yes, my lord. Noxt, I have the

"Sea.....In reply to your latter of the 18th inst., I bug to say, that the influence of high floods in the Borrow Biver affects the duckauge of the tributaries for the distances

inner River.

The next letter has reference to some innormation

" Kennere, 22rd July, 1995.

> "Your very truly, "J. Towsers Treeen."

103

Lord Charlemown.—That refers to the town of Perturbation? Colone! Carmen.—To Mountenellick, Perturbation, Mounterwarn and Carlow—to all the towns except

"Goinel Cannes —To Mounteellisk, Portsrington, Heantstevern and Carlow—to all the towns steept Alily.

Lord Cantaronn.—Have we got that report!

Mr. Prany.—I timle I have got a measceanding of g. I have received some further letters from the

Seren Desinage Connellites, but I need only send that —

"Corbon, th Angust, 1985.

"Sun,—I am directed by the Burson Drainage Committee to taken you that at the secoling of year constitution to be a related by the Burson Drainage Committee to paid to Drainage Organization to be self-organization to be self-organizat

see as to involvabled unmore water since the Leir dr., and Jones Poyers will turtify at to dissisting in so, or in Buyen mass drawings of that river. Mr. I attend and gree some unportant engagenering with use ordinary drawing water to the contract of the see that the contract contract is provided and gree some unportant engagenering with use ordinary.

"I am, sh, your cheddent servant, "James Kanar, Secondary." I have also received the following letter:--

"I Laimater-steen, Duklin, 6th Augus, 1955.
"Dana Sing, Whit Perforance to the promosel frames we bug its may on behalf of Min. Gerstan Steller, the whose was a spain, Min which the soft feverably to consulter a sea a suppression of the soft of t

"Your firthfully, "J. R. Steware & Sons."

Leaf CARLESTONT—Mr. More they will be touch as for effective for that it would be will be late, pailings, lobols: we proceed with the richines recovered to the contract of th

he a rich proper thing to assortion.

Mr. Manning in the third proper than the proper than the post of the special proper defined, to said those gordlenon, or those vito representation to the third proper than the proper t

of Mr. Menning.—Be that as for as the Berrow navigation is concerned?
Mr. Berrow.—No. Beyond that there are many as independent of the Berrow.—No. Beyond that there are many as independent There is the milling interna, there is the store a grainform increase, and the insteas of the dwallers the in this lower parts of the store, who might be affected to the increase of the floods. That is more of a this causilies consider to consider the cause of the floods.

the Lori Contractors.—At number 8 in the Warrent very there in reference to their nattur. The words see that he was to inquire whether the receive well in any way that injuriceally affect the Barrow Navigotson, or the lorid set below its down-iterate limits. The nulling national would come in three too, so that this comes antimly the model of the second or never not those of the Warrent.

Mr. Charles Unitable Townshead extended

Hr. Charics Unisade Tournated common.

2400, Lord Carragrows.—Mr. Townshead, I think: c.n.).—Would you take a note of what Mr. Townshead T.

se erolence to give the Communican as to

s shout to direct attention to, please?

If it also sebblide!—Well, no ; it is

#HippersSt, cx.—Mr. Townshand has already far-inhed no with the inferensilien, my lited, and I

nore as regards boundaries. There are some errors I have noted it.

"Farnish to correct."

2004. As regards boundaries 1—Yes

2104. Well, would you sholly state to the Centralization between the has, Bellimysboy, but been the property of Guaran Remains, places, what the boundaries are you refer to I Cents, let I view a code—soll not lang store, and I have

ntinesis, please, what the boundaries are yet refer to I Grini, feet if was sold—sold ast long disce, and I have fire a tending to the Sceniary, which probably given the rome and siddens of the purchases to the Renary bias.

1400, What County do you refer to I—King's lin. Thus the third townhand, Sissoure, was never brings. I thought the heat evidence I could give some—

corner. I (upoget the late witnesse) oring gree seems. Descending the design and meaky that that witness be the seem of the late of the l

mited made dipliced by the University of Southampton Library Diplication Unit

2497, Lord Cappearown (to Mr. Thomas Friagerald,



and our give you the accurate measurements. We are charged with SEs. In 2000, but of the all that, settledly went is 37a. In—the rest, I think, belongs to people of the same of Clinical Ses. Soft. Lot Gastravora.—That will be noted. And now, as your spinose, are the figures put down for his probable increase in the process details value.

\$505. Look Contravener,—That will be noted. And now, is your spirious, are the figures put down for the probable that use in the procent serial value of the looks when dimined and 'reproved, courset!— Well, if we are to be charged for the improvement we don't assent to the proposal at all, except us regards loads to our own loads.

2031. You preises against being shanged for lands in year tenantis hands — Yes, most stemasmally. 2432. We have had probests of the same knd before, and we only word to know your opinion?— General Gries strength; mototus against any mo-

fees, and we only want to know your opinion?— General Gries strengly protests against any such charge bring topool upon him in respect of lands held by his teaunes. 2655. Bet me to lands in his own hands, the valu-

965. But see to loads in his own harsis, the valianation you conside to the "I-I-I still not go into the question, because it seems to me we are charged with leads that would not be benetict A. narrow strip of least—Down, Agharettis, and Gortsenand. The area is not large, but still I should object to the charge unless it was shown that we could be benefited I have been able to shirt that lead sufficiently already.

—in my opinion.

2454. Is it near the Barrow or on a tributary t—it is near Genshill.

2450. On a tributary t—Yes. The trustand of Ard would postebly be benefited somewhat, and there

beg in head—that is Charquin.
2466. This continue 251 access—Xee, and I think as regards that probably the estimate is should first. I will be sufficient to the solid first. I will be sufficient to the sum of Peterbington. As a segment heads in the heads of unarant, however, I would cotter a strong profess signatus our being observed in any way for the proposedive improvement, and the sum of the su

ever, owing to recent legislation.

2407. In these any other matter you with to mention 1—No. I think not.

2458. Mr. Burez — Nr. Townshend, you said that

was that you were able to dish the lands yourself toyou. You appear becomes, as I understood you, 3550 You appear within the land undependent of the sateral dratings within we propose to do — In a posture black and You. By severing the other we have reflicted full for all your purpose. 2460, See Josen MCREARS—Are those heads put 2460, See Josen MCREARS—Are those heads put

36G. They are coloured green, and not blue, on the map 1—Yes, light green.

34G.2 Green—not blue1—Xes, except in the lower gree, it is colored blue—(false isolating of map)—Xe, that we have sold, and have nothing to say to what that we have sold, and have nothing to say to what is colored green. Our part is doodword blue—depth blue, which, I preture, seems much flooded; but I have been seen as a superior of the colored blue, which, I preture, seems much it have the had these twenty paras and more.

2463. Have you sufficient outfall at proxet for the drainage you speak of b—Quite reflectant for our pupose. But as I have said one townland would be improved by the achieve. The other townlanks I deal wish to see interfered with.

dead with to see interfered with.

19(4). But, a fundamental your evisions, the tyre,
19(4). But, a fundamental your evisions, the tyre,
19(4). But, a fundamental your evisions, the tyre
for the prospective improvement, become you and when
18 yourself with the present confull.—That is a, as,
or yot one towards—Interpretis—in which there is a
corpt one towards—Charpquis—in which there is a
corpt one towards—Charpquis—in which there is a
corpt control of log land, and that with is
improved. Me short the representation of the properties of the prope

for their species.

30.5. See Bourne – You don't adjoet them Nr. 30.5. See Bourne – You don't adjoet them Nr. 30.5. See Bourne – You don't adjoet them Nr. 30.5. See Bourne – You don't adjoet the See Bourne – You was a see a see

to this partners are the "Partners" in the man inclined and get in before account, cogist be to make the common of the partners are the common of the common

Mr. Phones Pittornald, v.r., re-examined.

te Thomas

2409 Leed Chartanows — Mr. Přiagosský, the Semetary will gree you the letters of vacious gentlectors who have wroten among that they demograve of the valustica, or that the boundaries see wrong, or that the wrong owners are returned, and as forth; and I suppose you will go down and taugetic into those mattern on the largel, as young as young the contraction of the contraction of the con-

on the Line, at the same you can be all the Line of the Line of Line of the Li

min, to monovalide will you taker use to quidage in a your braiding and the Communities from you should not that consider of least buttings. As you are warmed that the considered of least buttings. As you are warmed that containes their presented my strateging past on my own assembly represently, being the Mannier Dark Communities of the Communities of which the Communities of London Communities of the Communities of Londo Communities of the Communities of Londo Communities Londo Communities of Londo tail so reach trouble in the matter to which was soften secondation to the lists of the evidence received at

2471. Mr. Excret,—I am just going to make a suggestion. Would it not be possible to give the several parties interested, notice of Ma, Fitzgensle's esturn to the leads? The Commission will remember that there was a suggestion made that that should be done, and it would appear that Mr. Fitagreeld weakl out great assistance in his work, if notice was given to the proprietors, so that they, or some persons on

their behalf, might attend and point out anythrus that he wishes to son 2472. Lord Castratown.-I think the best thing and have it posted—after avrangement with Mr. Pitagerals—that he would attend at certain points, central points, on given down so that parties interested might meet blm, and give the accounty information.

2473. Mr. Fiturould.—Yes, but I would suggest

because Me. Peeny might not know the days that I sould attend. But I would communicate with him, and armage dates beforehead, in sufficient time to 2474. Lord Casmanows - Very well; was made

2475. No valuations of any kind 1—No. 2476. Or of any minerate of any kund 1—No, not below Athy-for this scheme; I skd, however, for \$477. But not in communion with this soleme L...

2478, Str Jone M'Kenne -- You informed the without any reference whatever to existing route?

2679. You divided, I see from the maps, the several 2480. One, two, three, four, five, six, and so on?

246I. Do those represent the different evaluate of 2482. Then what would be the first quality renew. sated-number 1, the lowest closed would, I norms,

2484. Lord Castletows.-Flooded from inpured.

ties, they only show on the map the quantity that us 12s. 6d, an acre, and so on.
2655. Ser John M'Kungar -- Best these plots re-

or the prospective value of that !- I have put down

2487. But taking the first quality that I have peferred to-supposing it to be meany noil, and that it is

2490. Your term then is the immediate direct 2001 Lord Carrageway.—The direct benefit on the

and on the injured lands being able to be thorough-2492. Would there be any means—it is perhaps a theoretical question but I should like to know—of valuing the hard an acress as it were !- I think my

attention to the regrettion since !- Well, it could be done of course, but it would be very tedious and very

2494 But I mean would there be any means of

difficult and most tediors.

2695. It would be a more general mode of vulnation -I know what you mosn : but it would be very

2495. But it would be foughle you think 1-Oh, we. 2497. Selli it would be feasible!--Yes, but most

2498. And would it give you at all an approximate value of the amount of improvement in I don't outse

\$49R I will show you what I mean-e 2000. I don't mean that they should be divided

you could get a zone of any length of uniform value 2001. It has been done in England. I know t ... I have not heard of it.
2002. Sir Jone M'Knnan-It would be quite possible to doubt-if the country was divided into

course, but it would be more testions.

250%. Lord Carrierows.—Why should it be more perfence in that way my lord. Perlans My. Hanned

2504, Colonel Cannux.-I don't see why it could 2506, Lord Castlerows.-I on only saking

Mr Themas

Shr Jour M'Examp. It would be complicated -you coris! NOS sot saids the reference to quality as system

Lord Convergence.-How is that rating done-is it deno by voluntaon or bow?

Sty Joan M'Kanara.—It is done by contours.

2006. Mn. Fitspeeald.—Rating by lengths would be

Lord Casstarowy.-The reason I asked these creations was thin-on have a variety of lands and interests to deal with; on the notes! benke of the proved if the water was taken away—what I call called lands—go beyond that again and you have lands that

shoody done so; they see not all charged at the same

19508. Total Castrarrows.-But you shink it would the prospective amprovement in some as I reggest?

2511. But not if you were valuing by suses 1-As I

one of very excellent land, and the other of poor gravelly soil. That is not a system I would adopt to

2512 Colonel Canners.—In your originate at a 2313. And you stated, I see, that as regards Athy,

only the oriakirts of the town would be improved, and

2015. Yes !-And I left the state of the towns to hasis in the eres to be improved, as a rule !- No,

or four owners, I think.

2018 Lord Carrierows —And what about the

other counties, and as very profaulte, comparestively 2019 I think Mr. Harvey members a here!—Yes, there are Lord Dreglada's, portious of

End Bog 2020. That is the more!—Yes, the Red Bog, and Versehovle has another part of the Three are

2021. Mr Brance—Thore is passed of the second of the secon

dig the sell and the ralend in the center of each field t No, I may the sections to the disches and dylon at the mescut value of the hand.

2523. Now, would it not be possible that a single

elet mucht very considerably in the quality of ris senface dusine, and you see the not and subsent from these and from the dricker and dykes.

2534. But you gained your opinion of the value of soil 1-Yes, contamly, and and salmoil.
2023. Bir Jone M'Human.—One other question

2528 I could not find it in your report. I am aware that Mr. Manning gives it as 23,000 scree.

Mr. Manning, c.e.—Yes, it is nearly half and half

are great separately for teas county. Mr. Hassance.—Ob, for each county. Then we can abstract the figures and get at the totals I want.

2529 Mr. Fitoperald.—If you will term to page 6

value £1,265 15s. 5st." You...I see I can get at what I want by abstracting 2531. Lord Camparows.—You out take out from

9552. And one can solutest or divide that from the probable frameword value of the purely flooded or

2533. So that you could begin my some theory by

2534 And the partly injured hashs a third mus-that outli be done !-- You

rapped out in figures in your report!-You, bet in

2557. I would like you to look at the map and so

then inhead the next strip is subjected to commonal

2539, Colonel Courses In the table of estimated uset is the cost per some only for the work done in the tribusance or does it include the works in the man

2540. Taking the whole !- Taking the whole ; but

2542. Did you pass over it 1-Yes 2543. And look into the quality of it !- Along the

verges of it I did; but an my second wist, if the Commission requires it, I can easily ascertain that

planting yet—unless the bog is nearly est out.

#540. Colonel Carrery.—Exactly; if the bog is out

ground again I would like to know-and I am sure

land, clean high bog, now that reald he drained, so 1517. Mr. Fingerald.—You must have strbteen

inches or two fort of bog-turf over the gravel to make 2548. Lord Castattows,-I dee't agent with you

one foot of tun'ts sufficient in my experience. But will the bottom. You see what I mean !- Yet. But this

2546. Lord Carrigrows.—When you go over the

A Deputation automics), with Mn J. Price, c.z., from the Barrow Drainage Committee, Carlow. and maltetors on the Lower Barrow, Mr. Norton, Mr.

Lord Cartagrown. Gentlemen, are you represented

mest your views as much as possible.

Mr. B. P. Scoten.—Mr. Price, I think, represents Nr. J. Price, C.E.-My Lord, there are three

on the subject of this marrier.

Lord Carrierows — Well, if they would subsct

Mr. R. P. Nopten extensed.

2351. Lord Castlerows. - Will you proceed to state have the mill at Strongsteam, Milford, and am also

recurried out. These malt houses would be necterly would be very serious, the malt in process might be all destroyed by one flood in a night. -There as a complete stop now between Bagenalstown 2550. What is that owing to !-It is owing to a siltung up in the unvigation course in consequence of from the upper draining. Above Leighlin though a creat difficulty, sometimes they comed carry more than

2756. Anything cisc !- No, nothing clic. expent

has made 2507. Would you allow the Commission to ask von any enestions. Mr. Norico !- Oh, certainly, my 2568. Mr. Batters.-There is a considerable fall, in

there not, in the river below the Milford nells !... There is a full, but it is not at all so great a full as Mr. Barrey.-No; the fall I refer to it in the

natural bed of the river. (Zo witness) -- Ira't there a he Millord Mills !- No, not a very great fall 2009. Mr. Price. Just as Millord there is. I took Mt. Barrer -- Perhaps Mr. Price would give us

2560. Mr. Priss .- Just as you please. There is a * See Appendix.

covert 1885, fall from Millerd to the next look at Leighlinbridge, a foll on the surface of the water in the raves, for these rs no reach of the cased in that part. That is two is one foot and a tenth per mile.

2561. Lord Carragrows.—That is below Miliford !--

From Milford lock to above Leighlinbridge, a distance of two and three quarter solles, and the fall in one fact and a tenth per mile. I can give you other nortionlass about that if the Commission so desire. I took the fall in other reaches as well

2045. You, below the bridge !- You; there is a fall they, but this is sured routy much over the cuture reach. There is a little bit of a fall just at the bridge, and quiet water through the bridge, but I should my

in reference to this, having taken the average dopths

the surface of the verter when I took it, and that channel would discharge with that fall, when it was Do I anderstand you to my than taking the river to be brimful, 161,000 celsic feet in the minute would be the discharge !- Yes

o uncasego +-- a co 2506. Of water !-- Yes, the meximum discharge of the channel rupanne bringful, on you put it. 2167. Then, if a greater smount than that came down the river wouldn't the discharge be facilitated

2348. Sh Jone M'Kanger.—The maximum food Mr. Maxing as to the maximum at Athy, which he

2569 Mr. Hassann,-That is what really did poss and the two floods will combine before they get down

this leagth. 1510. Lard Commows - Suspening that the tribu-

2571. And the Bathanesia river 1-Yes, but I don't apply my observations to it because it as above Athy

come more rapidly to the main river, so that then arrived and flowed off before the main body of floor onage down, which as you have beautifu ovidence took shout five or sax days. But now they will meet us a rule and come down in one body, while formerly they

2573. Mr. Bayun,—Thon, I understand, Mr. Price

2074. Lord Casparows.—From the main river and the tellutaries !—Yes, exactly. The flowin from

2375. The consurrence of floods at Carlow to... tunsously before; but that the rule will be, that they 2576. Mr. Barrey.-And ready all the pitersoin

2578. Absolutely it is in Carlow, I mer inform

the same point all together—I might give my figures the height of the land above the mifuce of the water per minute-just when bringist, and the maximum flood after dramage, I calculate there to be 600,000 enter first, taking about one cable foot an sare. The nest reach is from BullyaDor Upper to the BallyaHen Laws Look which includes the town of Garcsbridge. It is 1-45, or one foot six inches, the average which is \$40 parts, but I have taken it as five feet all through \$30,000 cubic flet per mituate. The maximum flood after disknage I estimate at 625,000 colds feet a

2578. Does that include everything you wish to my bout the different reaches of the river and falls !-

2581. Now, when you come to consider the discharacter expective of giver channels, in it fair to take The surface of the renter will must make erons sections of the whole river.

2162. The proposed new dramage works for the river bad being at Athy, I think, 160 feet width

the river channel, which you have described down how as Bagrondstorn, Millord, and other places, sufficent for the duckage of the water I—No, 9 is untirely tradepasts. Of course 9 is macked posterior, and the occasionness is that there are large trants of half feeded there for a great length of time. But rather seensthing is done it will be far weeze in the

filture.

1883. Mr. Burus,—I should just like to sak Mr.

Norton one or two questions an matters of debtd,
that perhaps he can give no some information esecerting. Do you remember, Mr. Norton, the food
that took piece in September, 18791

men force freez in specialistics, viril 2008, file, Narious—Well, I do not, because Sooth 2008, file, Narious—Well, I do not, because Sooth don't affect me an absence the range of the fields in consequence of the opening at the mill-race them believes were because of the opening at the mill-race three believes were 2000, Nr. Bern Millere, place — Proc. Millere is the presidently to the Millere, place — Proc. Millere is the presidently of the Millere, place — Proc. Millere is the presidently of the Millere, place — Proc. Millere is the presidently of the Millere is the miller in the miller is the presidently of the Millere is the miller in the miller in the miller is the miller in the miller is the miller in the miller in the miller in the miller is the miller in the m

2008. I shink your connection with the Millert branne is easy recent f-odly recent. 2007, In there earliedly here that credit give us reference with august to the Millert mill, and the goat facels that have taken place there, say without the last swenty years—it there anyloody in the with the last swenty years—it there anyloody in the with Millert with the millert miller with the property of the think of the millert miller with the millert millert miller with Millert millert millert miller millert miller millert millert

Nr. Watson raight give you the best individuals: on that point.

2598. There was a heavy rainfall in September, 1881—on the lot September, 1883—do you reintenber that 1—No—ah, you, I do recelled it and the self was stopped then for soveral dars by beat-

water. SSSN Now, how often in year commerce with Millred has the mail been stopped by both-water 1—00, whenever there is any ordinary heavy fixed 2500. It is storoed by backwater 1—Tex; when-

ever there is any ordinary heavy flood it is steeped by book-water.

2010. Our yes compare the state of the giver now with what it was before the dustings of the Barrert —Of the stree I cannot, but as request the testific upon the Eurow novigation I know that twenty years ago it was very much nove satisfactor—shat

upon the Entrow marganism is know that wenty, years ago it was very much hore untrinstep—that the beats could take full lookings nearly all the year front, and it is very collean, maded, that they can do that now—curry their thirty-two tens. 5192 Mr. Price.—May I ask you what depth that required 1—I cannot tell you that. 2390. Mr. Berner.—Than you have observed a

general dissinction of the energylag power of the tives, in the acceptation part of the Y-res, and 1 students are to the acceptance of the Y-res, and 1 students were frequently leve it was that they encod rest insulation are empressed with frener reason, and they always and they exceed get over orbital report as the shown and they exceed get over orbital report and the property of the property o

2504. But hadn't thus to be done at intervals for inney years past—most is elementary the charge of the Newlgoston Company to keep the marigation course open by means of medging from time to 'times'—O' course it a, but I gave that untance as above how the alling up has increased of late years.

alting up has increased of late year.

3465. Hare you reason to believe that that has
been effected in any way by the recent draftage of
whetacins like the Burres i—And the upper river—
by those and by the upper river.

Rathagen viven, because when beivey floods cootes, bear, award of that that virantees above 4thy no dealth cootes. Nest-down, and the drainings of the Buryen and the other stree bosteres that and Cut-yen, no doube, here, all a saling togother, becomed the scending down and secundary to the street of the street of the street of the theory of the device of Al test that it may quartee, and I know that it is also all the street of th

2007. Mr. Hamesen.—Mr. Prince you gave us the falls as 11-0 and 1-45 feet in different reaches of the siver-1—Yea.

2008. It than the full between the wheel sail of one weir and the sreat of the next—No, I took a place where the weir was down—man to the lower lock. 2004. But I want to know use that the material full

of the river, or is it the full of the rever since the navigation vector-level been constructed!—Xco—axis sacw 5900, Oh, as it is now l—Yco. 5901, Sir Jones M'Exanta—B is the surface full! —The surface full; but I may say that it shoe places

2001. Six Joers M/Kranto — B is the surface full!
—The surface full; but I may say that I chose places
where the reducal flow of the view was not affected
by the dearming out two sat the lower end.
2002. Not affected by the veth !—No.—where it had
a postsy surrigine depth throughoust—not quite shallow

at one and and done at the other. 2008. Still the fall of the water there would be less than before b-Oh, naturally it is less since the navigation walks were constructed.

20%. Mr. Jeréne —I want to mustime mather that necessary week doesn't faith of the through the control of this through the control of the control of the control of the registry is Secongaron tail in the control of the conduction of the control of the control of the conduction of the control of the control of the conclusion of the control of the control of the conclusion of the control of the control of the conclusion of the control of the control of the conclusion of the control of the co

*5004. See Jones McKennan (to Mr. Préss)—You stated, with reduceate to the reachest pen have been allading to their the manifestation of infrare would be a octable monoth—in some phone 1606,000 and 600,000 onless for the marinten-what the fortunations shackenges—You.
2600. What is the precost inframent dischange, age.

at you aware—I had not an opportunity of malimati that at all. I can only give you a capitation as a what it is. I due say that comiconally the macrisms of discharge was a groot to the post as what is will be in the firsters; but, as a rule, it would be openide-mine be loss. On secount of the formation of the outsiments of the contract of the outsiments of the outsiments when it is not rule.

before, so a rule
2006. I thank in your former orsistnes you stated
that you admitted that the maximum discharge at
Athy would not be proster in future, supposing the
weeks were served out than it is at present—I don't
think it will.
2007. And muchy there is us seen on why a different

the bodies of spirits of the managing bands—of the bodies of single bands—of the best between the single bands—of the best between the bands of single bands—of the best between the man single of the Bott, and the large one-fore-beam which was also to be long up the word—of the of conditionals man to fill the conditional bands of the bands of the process of the bands of the word—of the conditionals man to fill the conditional bands of the bands

bas 5008. Bet would not these deales below Athy, supg of pairing the rambill to be of medicate drantice, from are—iwenty-four to furty-right heurs, have emptied; would get the water have paned nearly before the water from Ma. R. P. Nacton

fixed the thirt; but I speak of a floor dwy' flood, which to the diminion of contentive radiabil which Mr. No bests, one of the Commissioners of Works, was of optimize in sandher impairy—should be gravibal agental. 2009. Heavy you made any calculation as to the length of time it would take to find the kinds now floods after a saturation—what length of time it would

take to ill the flooded lands, after saturation, up to their executator—I have not, but I have made a calculation that bears upon that. 2510. Would in exceed forty-sight hours!—The

2510. Would in exceed forty-right hours 5—The filling up of that—3: is constituteouth part of the cotchment-bosts, as for as I can make out. 2611. It is more than that above Athy 5—What I

my in this—in has been seased by Mr. Misming, I think, that 25,000 access in the quantity of land actually fleeded—tharm are 45,000 acros meeting and improved, and of that abort 25,000 acros are fleeded, and this propertion of that to the whale catchineact-basin above

Alby is one-currocount, a tunner.

Mr. Hamans—Nay one-eighteemth, nearly.

2017 Mr. Princ.—It that say them probably I got
as wrong quantities (After exhibiting it one.) Yes,
I bolizer it is con-eighteenth if numbers in your
signer. Van, conceptionath of the confusion serve.

Well, on compensing that with the coloured states, I
show each as legally Nessyl, and the order on the recobot each as legally Nessyl, and the order on the recosort and later or the filtrance, on only con-chirty deep

mer. the Loroch Correll considerable to be able to the

mer. the Loroch Correll considerable to be able to the

shoot one-twenty-second part. 9013, 8th Your McKnext — Well, but returning to the point, the length of time it would take to flood those had, assuming that they would be con-chirrenth of the mediterisest area, a represent that the lends would be flooded to their meximum depth within thirty here. —The vanil depend agon the condition of the

3914. Assuming it to be asturated I—1 date say it would.

5015. That would leave two and a half slave of exist in four—the difference between the thirty hours and the four days—during which the maximum food would be.

abel in the overtower, it would convent as the 2016. Yes 1—Ach is a first into the part into which is overtowed, but I Gou't think you could assure that. Supposing the rate ownersteed derailbacecoal all over the deviating struct, it would not be able to fill the poof for a cention time, it would take a long time the poof for a cention time, it would take a long time of the poof the able to fill the poof the able to fill the poof the though the supposition of the could be able to fill the poof it had a long time to get down in Hill the poof it had a long time to get down incould be able to the could be able to t

take an days to once down.

Solf. It has attained its maximum at the end of
thit point house may in all results, and therefore there
would remain two days, during which the flood pours
over it as the rate of 400,000 cales feet per minute t—
I surnows that occasionally the thirt does harmes

now, a turns on, would apply to the referration by the May May 100 and 100 and

2603. Three makes in the four days t—Yea. 2603. You have, of course, examined the maps showing the whole dramage area t—Yea. 2603. In it very that b—Yes.

the confirment area, there are \$23,000 area field, or comparatively field, don't yet think that the windry would run off very alonly free that, the general between the valley in which the sunings run is either beg or gratie multiplication of collected that in "Yet was also been also because the suning run is either beg or gratie multiplication of collected that in "Yet way slowly free that in "That is after it is distinged. 5018. At present, or after it is drawing in selection and it does it not five yet slowly yet laves express,

I will take their dense while they cannot do now—

8077. You don't follow any if there is a flat table
had, with a very geath clope, despering the watercomme word, to any approxiate cateat, affert the
velocity with which the water will run off—Emony
the framers will take advantage of it—

3018. And what good is it except the firmers will

a mela desin...a main arterial drame—except ofreatage was taken of it by the dramen, the waite would not come so very much faster.
1889. Supposing the datches were all closed up, as you say, would it not be a district off which room weekly

fore comparatively show!—Yes, but a great deal faster fore comparatively show!—Yes, but a great deal faster ofter these proposed works are excented them at present; that in all I say. 2430. Lord Carrarows.—Mr. Norton, I wanted

2009. Lord Contextories.—2017. Notices, I wanted to sak you a question or two; you say that now the becamented of the Beirrow Navigation. Company a much retarded by the efficing of the river. I under stood you to say that I—Ves, the beast are not able to carry the mane haling an formerly.

to 2001. And, therefore, of course, that is an injury to the pure business— Well, if it more an injury to the Berrow Nartgutine Company and the Ganal Cosal Company, who are carriers, than to us, though, of course, to come extent its retains on business. If we want to get up 100 harmly, and one quity get 250, it want to get up 100 harmly, and one quity get 250, it want yeard our humans.

taken out of the free? would becelf your bestern You and the most of the amount of the amount You and the same of the amount of the same You and the same free amount of the same when the same attractive when was for the water in manner in loves ill not what I and was, their if the dimining orderne we assured out, the water that it percent forms a new assured tool, the water that it percent forms a new the same water of the same and the same and the water than the same and the same and the water than the same and the same and the adolescent that the same and the same and the water than the same and the same and the same water than the same and the same water than the same and the same a

Sign. You never have been obliged to stop from a failure of westergely—No. Not the power is heared; as no deads.

2005. Ada possent—Not, in a sly remark, hat give the stop of the stop of the star like and the star like and well are stop of the long of the star like and well as the remark. This is the post advantage of those mills or the Lower Beering what as they start do not not stop of the star like as manuscript and the star like and the star like as the star like as the star like as the star like as manuscript and the star like as the star

1 MeV. Suppose, that in the dramage works, as appearametely equal level was kept for you with more when the area water supply in arrange, that would not not have been used to be a supply in the sense you are only depending now on this fewering that we make of hard former if how one a head with the way make of hard former if how one a head with the sense of the former in the control of head of head of the control of head of hea

2638. Up to the low sammer level we will call itt. Then our business would not be affected, if

2639. But if the water was sent down in the same

Mr. Hastann.—Several witnesses have spoken coming to. (To seitenny).—There is no water impounded

lower I think. 2641. Up at Monesterevan where I are referring

to !- No, at Carlow and at Milford, 2643. And don't you think that the water is kept

2514. You me the reservoir has disappeared now there is no water imprended above Athy !- There

to emply us.

2016. I don't think there is much water coming out

2018. And what would be the effect of their removal to maintain the arguly. The river could not be kept at that level if there was no supply coming down from the urner cod. I agree with Mr. Norten entirely

\$550. Supposing that the deales were cleared, all custing in at the upper end, he can draw 10,000 out/or See at the lower and per manute cet of it, but if it does come to at the upper end from somewhere, and as a

is coming in new 2501. You maintain that at the present november astually the whole reservoir that supplies the mills and

and chalenetions in the upper portions of the Barrow sod its contributories - Yes, and in the ditches and Mr. R. P.

2092. Ded you take into any calculation the evaporation of that great area, and did you take into

2653. But those springs must be in the drainings

2654. But those hills are sensing down water from 2600. Higher mound at the back of the estelment

Fig. 1 ager gloss as as the term of the barn 1-1 fort think there is not higher ground then that, judging from the formation of the country contributing to the water there, otherwise we would find very different results. 2464. You think that the whole received now

is practically the water retained by the weeds and the name from—an express to 1 on.
1867. Mr. Hassann—It is not all spring-water;
ten coming in now to That is identically what I may

quantity of rainful, and in one year this was the result whale of that elther evaporated or was physical. The experiment is very ourious when we come to the month of Japaner, out of a minfall of 405 inches three-dourths of it went through, and in the month of drained land, when it is ease tilled, gives off its water 2656. Sir Jour M'Kunter. Did all that expendi-

ture of water pass off by evaporation - the difference t -Evaporation and scaleage. Is had to enturate this 2019. Mr manatan.—And wast becomes or that sookage water!—It won't get down—at draw out in that, 2000. Sir John M'Kraum.—How does it dry out?

1961. It is different from other experiments and

thrown off he evaporation !- Well, the result of my experiments was, that for these securer months only

M. Weine

half an inch come through, and in the two winter taken at the same time

2603. Calcaci Canners.-Mr. Norton, one of your objections to this schome appears to be that the obmany people up above would be remoded, but for perrown convenience you would prefer things being lower river if this drainage scheme is caused out, so

lower part of the Barrow without the supply of water *9889. In consequence of the improvement of this 2063. The condition of which works great injury to condition of things alove, we want you to take one that you don't hathetauv injury on as below. I have told summer supply of water, and I also think that these

2664. Mr. Price, G.R.-May I just say that all the scotlette here, and all those for whom I am preinjury. If the matter is looked to now, it will be all

Lower Bariow should be considered by the Commerto meet risks and dangers to interests there. Lord Carracows.—That is exactly what we one

2463. Mr. Proc.—But some questions put by Calonel Corden seconed to keeply that Mr. Norton was made that a cits gus non-that we were not to oppose the scheme, and they were one and all agreed with me as to that. Otherwise I should not have noted for them, because opposition of the kind would to be done. All we are here to argo in, that in any scheme that may be agreed upon, the interests of one along the Lower Barrow will be safeguarded, 2604. Mr. Nortes -No doubt if the dustness is to

Mr. Welter Reaso craminal

2007. Load Carrierows.-Would you kindly state 2676. Lord Castlerows.—Have you a better fall than Mr. Norton's 1.—Yes. I think we have the best power on the river at present. Last year we want 2018. With reference to what points t-With reference to the sending of the water down in greater

volumes at fixed times, and lessening our summer supply, both of which would more un greatly and but we see not so low now as we were last year is 2670. What is the name of your place1-Brown 2671. Will you continue what you have to say !-

is no use of going over it all again. In reference to the injury caused in the times of high water, we are Sapisd very considerably there, and have to look up 9072 You are below Mr. Norton's mills 1-Yes. We have now to put sods in our decreasy to keep

timat it was stated before to the Communion by Mr.

Price that last year the whole of the summer water
was possing through our mill wheel.

2673. Then you suffer in the sums way at Mr. present that sufficient power for our prerposes, but, if andtenty of, it would injure our nulling power

2674. How do you necessat for that 9-I suppose it

2675 Mr. Hamanz -- Your's 15 a twelve-feet

2078. We have not resched September yet, though your passent supply, are you lower this year, or just

diminution of water in the summer will injure our 268). Entail more material loss t-More material lone. But they peas away much quicker, of course,

2681. Mr. Hastano -I wanted to ask Mr. Price a question as to the dramage area below Athy. It is very much less for a male in legath of the river than 2682. And the ground is much steeper !- Yes, it is

2683. So that the water would run off much more

painfall coming on the river in a state of half flood-

9686. It would require securiting about four days' days' rainfull in my calculation—that, as I have 2687, Sir Jone M'Kennis (to Mr Brown) .- Are-

you subject much to stoppings from back water !-- We er, generally three or four days in the senter time.

2688. For how many days at a time !-- I have seen 2689. But that was an exceptionally dry winter !--

2690 Mr Hassann.—Are you wholly stopped by

2001. The hreast wheel! -- You the breast wheel. the winter water Thure is a hetter demand for sterf

1002. Mr. Barrey ... Just let me ask you one quantion. Have you mountly gone to oxneal reable expense spent \$6,700 or \$6,800 on the mill in the last two years, and I may my £1,000 before that-before we 2003. Can you give any evidence with regard to the alloged uilting up of the river in the last few

in getting down n rim man or goods and we have now. We are post to a great deal of treable now. Our mill was stopped for twenty-four hear now, but year because of the delay in getting wheat we to being down what one boat took when I find become

2095. In ten years this difference has arisen !--1696. And is that ewing to any diministion in the

care that has been taken in keeping the navigation took to keep the navigation open before that My, Watson, perhaps, could gave you more information 2007. Sir Joses M'KRILLE.-Are you dependent

capeons of putting up a steam cogno.

2008. Lord Castrarows —I was going to sak a question about that. Supposing that this ultring went

on as at present, in all probability you would be stopped by the very fact of the boats not gesting all our stuff. Of source that would be an increased 2009. Have you may experience of mills worked

2700. But they are sensitized worked by water Freeze

power and acceptance by steam power—some mills!— Yes, that is so.

Mr. Price.—There is a witness here whose mill is washed by both, and he can give you information on

that solvices. States (to Mr. Brown) .- If the water in summer sime, when we can do much better

2762 Lord Carterrows.—And you don't suffer now from deficient emerger water!—Not now-not since we put in hew machinery. Formerly when we collect and new machinery, and since then we have

2702. Then you would not be obliged to stop ancost by not being able to get stuff down to your mills by the bests t-Taxt is all, and that only baporned com last year. But we have had to get stuff down 2704. Bir Jours M'Krenze -- Do you peofer water

fact of the loss on the higher rate that you paid for 2791. Not in a course of years even-you would

think not. 2707. Of course you would be in the hands of the was stopped, but that is very unlikely, I should

\$708. And you would loose the adventage of the boots coming alongsuic your nill I—The Barrow navagation can never be storged up that war ; I don't 2709. But suppose the affiting went on they could be

perfectly uscless, but I don't think the Burrow navigation could allow that. 2710. And it would be a very serious thise and almost necessitate your stepping work if that equired !

2711. Almost necessitate your stopping working the mill or accountate your going chewhare !- I would not say that but it would be a very serious

Mr. Heury Watson, examined,

2712. Lord Castistrows.-Have you any informaam a good deal interested in malting down in Carlow water there from time to time to a considerable extent, where there is no the Quay in Carlow and in one of my possess in Leightin Bridge. My attention was parti-sularly drawn to the food lan spring—in April. It

Ma Henry Waters was as you will remember a very day spring and I that there was no great depth of water at Leighilla. Bridge at the time. and in the course of a few days my partner wrote me that "the fixed was up to the Garlow road" —an exceedingly high flood for that time of the

2713. What time !- April, I think it was. 2716. Of the present year 1-Yes-last April. I of the country around at that time-it was as dry as it had ever been in spring within the memory of man—there is not the alightest doubt whatever that if volume. There was no great rainfall that I saw at the

2715. That is no local usin !-- No local usin. 2716. Ser Jones M'Kenner.-What date was this !

2718. Last April-1886?-Yes When building a new malt-house to Leathlia Bridge-on which I isla and levels by the previous flood heights. I raised the water we have known there. The house that I sook ax or cight makes over that 2719. Mr. Baues, That

Mr. Bauer,....That is above the flood level of 1879 !- Yes; thinking that that was making ample will be at all unfinent. The weeks and characterism act as harriers, but if these are removed and the water sent down in volume upon us, I don't know what damage would occur. I have lately remarked to the hack for them. There is not a malt home in that whole dutries that will not be affected if the drainage am very fond of dramage myself and would like to see infore us materially below or injure the mavigation which we have a great interest in. Our concerns are

2720. Colonel Games -- Was that flooding you spoke of at Carlow or at Leighlin Bridge !- Both 2721. Mr. Bruns .- Do you know saything about the plands of recent formation on the giver Barrow ! -I do. The ellt is coming down the Barrow from time to time and these is hands are retaining and collectevery food that comes leaves a certain amount of deposit on the top, thus they rise perhaps half an

inch or an inch every flood. Than the islands extend 2722. Do you know of your own knowledge an island Bridge there is an island growing below the bridge which was not there, and above the bridge there in another taked which has come down, I suppose, 20 2725. That is, it has extended its size down stream?

-Yes, and it is still extending-down below the bridge, tight through the contro arch 2724. Any other place you can speak of - Wall, grown enormously. It has extended towards both sides

2725. Lord Carrierows.—You say that the flood in April came up to your floors that you say had been made 6 or 8 makes over the level of the 70 flood harm—it did not ree high enough. I spoke of the only as a feature in the case. A high flood without

2720. How high did it rise—was it over your floors at all i—No, it did not come in on my place 2727. See Josep M'KERLER.-Did it come near the fixed of '79 !-Oh, I should say not within a fact of it.

near to the top of the Quay wall !- Well, I could not may examily, but I know that it came out to the Go-2739. And was there no heavy local min to account the country down there dry and purched looking-ourextent at all, taking all the elecumstances into consideration. There is one matter that struck me here-

2730. The Berres !--Yes--it has filled up very not come down now as it did, and will, in fact, require to be such again. It has rilted up fully 2 feet, and th keeps back the water at present. 2731. Do you find that the fact of that river being

affed ap creates to say extent a reservoir such as Mr.

*2781. That is the Burran river!-The Burran river.

Mr. John Mousen examined.

2732. Lord Carrierows — Have you saything to ear to the Commission !—Yes, I have been saked to months in the year day now !- I should my mx months of the year.

3736 You have six months in each year of a dry river.
2733 What river is that 5—The Leer. Promples 2737. And previously you could work during that

\$734. State put what you want to say t—We find that the effect of the draftage is to extend the dry season about fines there so long as it seed to be before the draftage. We found it measures to ever 2736. Yest-Then so to the effect of the siit coming down. a steam engine to supply the deficiency of water 2715. Three times as long-that makes how many

2739. Does that silt affect you at all in working!— It does—it prevents the vater occaring down to the Spattence of the mill. 2700. And that silt in removed by the Dysinage Road is It was care.

Sign. And that sitk is removed by the Drainage Basel 1—It was come. 3741 And will have to be again 1—It expect so. Then the Drainage Board had also to extend the weather civilial with was early wearly-set lost long on

new weir of 100 feet lang.

27(2). That is to take the new flood water 1—Yes;
the visited floods extend by the distinge.

27(3). Mr. Harsano — With respect to that weir
with the har tax controlled the All weir

which you have just needtined—the old your was quite insufficient, and the water used to run over the bank of the stream and flored all the adjacent lands?— Yes, some times the viver was flooded. 2744. And the 100 flort wells was put in to take all

2744. And the 100 fact well was put in to take all the water and conline the water in the river's course —not to take a greater quantity of water —Bus I believe if it had not here done the effect would have been to result of seed over rull.

2745. It was fleefed before, and that were was only constructed in order to confirm the water in a given charmed in place of letting a ge over the whole ground adjusting t—It would have come down in larger volume than before, and if the worr had not have extended must have inpreed our permises. 2746. No, not some than before!—Ob, the water

and if the new wire had not been put there we would have sufficed goodly.

3747. The water new goes away without dring any signify, whereas formerly it overflowed the banks and sured over the administra lands 1—30 death.

injury, whereas formatly it overflowed the banks and spread over the adjacening banks — No death. 2748. With respect to the scenner water being distantized in the last two years—the niteful of the last two years has been very small an compared with previous years; you are aware of that 1—Yea, last

I am.
2749. Sir Jour M'Krann.—Is the lavel of the
wor the same as before or has it here altered?—The
level is the same, I should think, except.—

lovel is the same, I should think, except—
2750. Mr Hassans—Perfectly the same—extended
only from 28 to 100 feet.

"2760. The Wilmon—The extended part of the weir
was made 3 inches hather than the del level.

2751. Mr. Hassano.—In that so l—Yes, certainly, 2762. Was that at your request l—Yes, at our request.

2763. Mr. Price.—Dill not the Drahinge Board street the principle of giving a loss supply of water in summer by recording a cond to store no water during.

termine by provining a peak to leave up work arming the night for your L—Creatily) they provided a pead which has been of some slight nevton. 2765. Load Commercers—But it has not beloed you out of the difficulty of the six dry months I—No, we had to put in machinary to got ever the difficulty. 2765. Mr. Hansano.—That pearl was supplied to

270. Mr. Hanam.—This pirol was supplied to provide for their guidering the Standay water. The wester Hannord will goes constantly, night and siry, and thus point was to gailer the Standay water sup-2706. Lord Cameronny.—You had to employ 2706. Lord Cameronny.—You had to employ stem to support the defeator waterpower —Even. 2707. And haven't you proved that you have been able to get through your week quickers—Well, it has also get through your week quickers—Well, it has

40 extra expense of course.

Mr. James Bress

2218. Locd Chertarows —Would you make to the Vectoristion, place, applicing you have to only—I are as working suffer, you're known, and I washed in the Burran with forely-ties you say, before the demands by of the Burran was thought of At their time, in the same, we have not some suffer when the points and summing the own which and there were two points and the same was all machinery connected with each wheel, and, excepting the summer was very dry, we lad wheel.

2758. Very slight though 1—00, no, very consider. Aspect, and while, because we have to provide couls to find the Mr. Man cogine, and those have to be realled and carried from Binane the station to our permiss.

2720. Bot forcestry you had your mill stopped for 2720. Bot forcestry you had your mill stopped for

two menths each year!—Well, not quite stopped.

2700. Assume then that it was stopped for one menth out of the twelve, that was a great less on the working !—Yes, no deels.

2551 Yes would have to zero off houts and stop.

\$161. You would have to turn off hands and stop you works altogether i—No, we never stopped altogother, we skuoys did a little. \$2162. But the main body of the work was stopped? Ven that the

276%. And years is a night and day mill b—Yea. 276% So that parkel inoppage, for want of power, with all year hands there, is a very estable maker, and now you can run all the year recent without any stoppage with the steam power!—Yea, of source,

stoppage with the steam power!—Yes, of seams, we use both, we cally use the steam when the water power is distinct.

3763. I know, and don't you think that the loss incurred by two months partial stoppage in each year will soon compensate for the expense of potting in the

will noon compensate for the expense of putting in the status? I will you early a hypothetical question, hat you have had the expension and we used to you for that superiors I—Yes, we find it a hearth's to contrade to have the mill going always. 2765. Never stopping, what formerly you had one or from mental in the very stopping. We that we

had so in haying stiff to supply on tests.

2167. And slow by on thirts that the small account
of the cost of so cagues and costs would be soon compensated for by the improved condition of things now?

-14 may be sured over a period of years -2768. Yes, over a period of years; how long a period would yee say l-Efficien or twenty years, I would say. 2769. It would take that length of time you think

as, 2769. Is would take that length of time you thinks to make up for the loss.—Yes, fiften years, I obould be say. But this, is only an opinion. We have only less last the steam on for one year, and have not had said side of the control of the said of the control of the said of exactly.

50 activity.

2770 Still, it is year opinion, that it may be compared to presented for an aperiod of yount—Yes, but our mills, you have been a superior of young the property of the first which we have been all the year required at years and the first which we have been all the present.

2711. Not at present, of courns, I cally refer to possibilities—We enforced brunchy frees, a distinct.

n possibilities i—We eaflared foreactly frees a deficient of the state rapply, they don't eat the Barrow, that is what if I meant to say. 2773 Str John M'KERLIE, —When did you put up the attain segme !— Lust year coly.

No. 2733. And when was the Lerr distings finished tocelly. The upper part that affected us was finished in about 6d to 1835.

The 2776. Mr. Hannan—The test water has been a distinct that the water that between the con-

nely. Derimage Board are delign state additional works at impliey remember a relax to relave the tail water, and to prevent the violent Board trees captuing the mill. 257% B. will be lowered 1—1 expect so, when the it has works one finabled. The additional weeks are not has at finished yet, so we cannot tell what effect they will have.

Mr. James Brewn examined.

water enough to drive one wheal constantly, and one on about time.

2717. And do you find that you have been affected by the desinance mouth—The water began to decline in ones about time, a year or two after the dranging, and at became were still, of the present time, one wheal is alter, in a shall be do anything, and the other

Mr. James Breen, Mr. James

hours out of the twenty-four, we me gathering a pend the rest of the time. 2776. Mr. Barner - Did you observe the deficiency in the semmer water immediately after the drainage

works !-- In about a year or two is began to fail in 2779 Do you mean to my that it was a year or after they were hegen !-Oh, a year after they were

Before that we were able to drive in the summer time what I state to you, and at 2780. You say that one wheel is idle t—Yes

2751. And that the other is doing what amount of

2782 How long does that continue!-Free the mouth of May, we will say. 2783. Until when !-- Until the fall of the season *2783. Would you say it lasts as long as six menths !-- I would not -- no not so long.

2784. And has that been the state of the case for excepting of course a very wet summer 1-Yos, excepting a very wet summer, and if it rains for twentytwelve hours or fourteen hours more that as all gone

2785. Compare that with what was the result of a beavy rainful before the dramage works !-- Oh, it would come down moderate then, the waters were related above somebow and they came down moderately, not altogether, and that is how we would have water in the summer time, working the two

\$755. I om speaking of the winter floods. Do you find that the effect of the draining works was than

they came down much quicker and in larger volume than before t—Ou, yes. 2757. And went off much sooner !- Yes, went ower 5788. Your evidence altogether refers to the Burres.

5789. One other question before you go. Do you

1790. And what becomes of that !- It gets into the

summer time along the banks in ridges, where it has 2791. Do you know where the Burren falls into the Bayer bed do.

2792. Have any sandhanks or mad banks fremed I thruk there is an island or nand-bank just a linke daws the Barrow from that, which wen not there nome years ago, but I have not much to say to that 2733 Lord Carrarrows (to Mr. Price),--Have you

anything further to say? We should like to know if Mr. Basses -Perhaps it would be well to have on They comprise not only millers and malesters but others. 5784. Mr. Prior -Quite so, a variety of interests

Lord Cartagrows -- Responded by the Parent Dreimer Committee, I think!—You. Mr. Haughton

Mr. S. Walfred Haugiston exercised.

Mr. 8 Willred 2755. Lord Castragrows.-Can you give us this in this question. In that hat you will find the names ative collection of hunder men who are interested in agraculture, of men interested as rafflow, of uses interested as maltisters, and men whose duty it is to attend prosperity of the district. I would leave that paper handed in as follows) -

" At a public morning, held in Carlow on the 9th instant, a Committee was appointed to conserve the interests of pensors resident in the officers liable to be injuriously affected by When the property of the property of the constraints of the property of the pr

register executives; S. Withel Hanghoo, Eq., Lodge Mails, Regensleters; S. Withel Hanghoo, Eq., Green Fank, Carlor; Purch Maher, Eq., Lr., Ballyche, Hener, Gerciarities, Walter Brenn, Eng., Huncerveitset, Nather, Adv. Walsin, Eq., Thengh, Hood, Carlor, (per ome. https://doi.org/10.1007/10.1 Mr. Abore McCanaldews, IOs. No Charge & create, according to the control of the Wm. Ward, 2r. Begrenhover, 25; Moore Michael L. and John Kelly, Wellington, 25; Moore Michael L. and Jones Kelly, Toro Clerk. See Author Horsender, Action-tonic, Carroy, & H. M.,
Carloy, Left) Hardey, & J. Step. F. Courroy, all size
Landy, Left) Hardey, & J. Step. F. Courroy, all size
Alexander, and the state of the state of

16: Grand Canal Company, Dablin (per Mr. John Kelly, Cadars, agent), 245. S. Willbed Hanghton, treasurers You have heard the evidence (Mr. Haughton con tuned), as to our apprehensions. We have en-

one as to what we expect. We are afraid of those gertamty that it will be so, but how can I convince partiemen, that you will strive out of this notice suger to smuch the flower musty. And if I might post out a way, perhaps you would give your g 1) the Queser's highway, for every subject has on it soul rights of tragest so on the Quocu's highway. his Cortain rights of mavagation, and for the to the Berrow Navigoteen Company, but all the rights and they have, I will say it, been honourably observed.

the Queen every man has a right of transit the same so thry would have on the high read. These coyal rives, gentlessen, are, I think, analogous to what are On those progress, conficusa, if you see your way, sel if you entertain the view that I have put before son, it may lead possibly to your recommending s set be left chargeable to the district. 2716 Leed Castlerows -- Mr. Haughton, I think

milite work-we will take that down so evidence, but three are only four royal rivers in Ireland, so that it

2735. Mr. Price.—I think I have stated everything I wish to say. But I draine to reaks one remark in Riernes to what I said at the lust inquiry, having Egold to the begs noting as spenger for retaining the water. One of the Commissioners, I think it was Mr Haspard, if I mustake not, asked me wouldn't I sti more water out of a bor by draining it off from a grater depth-an doubt, I quite admit that No doubt you got more water out of it, but you get it flustrate that now the water trickles out, but when

2190. Mr. Hamann-You etated that boos gave the level of a bog in lowered two feet, won't you have two feet more of snonge ever your lovel !- I crite sings that; by making a larger specture in a vessel less down you will, no doubt, take more water out of 2, but more quickly. That is identically what I

2800. What does not meet the case at all—you get _Asyanx, and two fact more of stratum that holds water!-On tainly, Mr 3, Welfard

3501. But you got two fact greater depth of storage 1—But that has been drauged before I want it

2002 Why should it go off with greater rapidity than before, whether it goes out at four feet or at six fort douth it does not make any difference !- I have You also sak what ought to be done in reference to the Lower Barrow; I think in the first instance the drainings ought to be done, but that dramage ought Lower Barrow. I cannot give debuls, for at would the river that ought to be widened and despended

2803 Lord Castracrown,--- Are these the welrs of the Barrow Navanation Communy !-- Yes. despening the upper ends of the reaches the Barrow would don't from the upper ends of their reaches being deepened-the sills being very deep, generally droper than the bed of the river- that certain of the wears might be lowered, and some of them lengthened, which would not effect the level.
3804. That is in order to give greater facility for

Carlow, ought to be recycled with straces, so that to paind, and these sinious might be opened a little before

2805. I think that is practically what Mr. Manning suggested for the upper wells-ofsices 1-Yes 2806. And you suggest the same class of thrug at Garlow !-Yes. The difference of having shrices in a wair is this-a wair does not discharge until the flood comes down upon you, but the slutces will discharge the weles, particularly at Carlow, would be attended ereat deal of damage. I think, superally meaking the river as far as I could, in the short time at my lower part of the river, both to keep up the navigation Of course, I do not contemplate in that care such an

2907. To keep up the manigation 8—To maintain the navigation and to dispheres any extra floois; and refflers in that way, and compagence them to a creek extent for their loss of some of the summer water 2808 Therefore you authorpate, for a certainty, less of some number water !- I do-of some of the

2809. And how do you peopose to co for that !- I think that the very works that would be with hetter falls and less backwater. Exactly the same three is being done, under my own directions. with reference to Mr. Hannan's mill I have no doubt that he has less water, but the works that the one way he will be compensated for in another. Of lands all down sleng the Lower Barrow. It would take a very much more extensive kind of works than I have in my mind to rolleve entirely all the

depart, past fleeded leads all the way down, but they might be elleved greatly at Carlow, Greenbridge, and Leighbor Some of the bridges would require to be rebells, but I should thruk that that is a matter entirely for the County Surveyor; they don't affeed sufficient waterway.

2810. You represent a good many of the owners in 2811 And you think that the works done there would not relieve them I - Ob, certainly not-it would all the lands along the Lower Secrew

2812. That in the flooded lands below Carlow !-2813 Mr. Baussa.-When you speak of relieving heads, do you mean to rehere them from excusers or do you mean to releve them from the floods which they at present suffer from !-Oh. I only 2814 Lord Carriarows .- That is the excessive water produced by the dramage works !- Yes, I think it would take a very hope expenditure to relieve the lands below entirely from floods. According to the

channel only passes now 160,000 cubic feet. It would be a tremendous work. 2815. When about is the most congusted point !--I think the worst points are from Milford Lock to Leichlin Bridge, about two and these quarter writes, from Engenaietown to Finniscourt, about two

SS16. These are the two most congested portions?

—Yes, and Carlow. There are other portions, but I took these specially because I have better levels. I calculations. There are other congested portions at

2817. In the river congested there from the banks being alose together and the river shallow, or from is just above Leighlim Bridge. As I say there say 2818 Ser Jous M'Krears—Is there much land feeded on those resolves !—Yes, I have marked it

2819. Will you lot me look at it !- I have only marked it in yourd (shows map marked). 2830 lim't there a creat deal more flooded land above Milford 1-Of course, it is all only roughly 2821. You don't think that the flooded lands are the great interest on the lower Barrow 1-No. Of

crease embankments could be made there, but every 2823 Mr. Hassann.—Am I to take it that 8,000 cable feet per minute was the amount of water passing at Exernalstown mill I - 10,050 - I said the other day.

2823. Eight thrussad I took it to be !-- I mid roughly 8,000 to 10,000 cubic feet I think you will

Mr. Musning —It all depends on what is the searcest

2824. Mr. Hamann .- I mean the occasion on which from 3,000 to 10,000 cubic feet per minute some recurrencests when I was down as the weign.

3825. Could you tell how many palse of stoom they had going 1—No—they work rollers now though—not

Mr. Hospiton -- Moure. Brown and Crostlerally mill is reputed as being 100 horse-power. Mr. Monton,—Can you state the full t... 1826 Mr. Prior —As Baymaistown the full y eleven foot two inches-when I was there 2827. Mr. Houghton.-If you give ten horse nowin for each foot you will be about right. 2828. Mr Price-That was the fall of the bot-

which I took. 2029. Mr. BRUDE.-You began by saying yes proposed certain protective works below Athyt...

1830. And you mentioned stolers in some of the 2831. Now would it not be necessary to put shows in one of the webs throw a much larger quantity of water on the weir immediately below to !- It wested but I think that each ease mucht probably be use as condang to the circumstances, by watering and deepentenance and management. I coronally would not go would be a mantary matter. At Carlow, Gens-breige, and such piaces, I think simious oughs to be

2810. I wish to ask you specially about the slains 2838. Does there not exist at Milford a very con-

5834. And the rubble road is carried over the view by the bridge !- Yes, there is a very raped full from

2835. And that bridge and those weign formula think you might meet any effect of that kind by going down step by stop-reducing my one level and this reducing your back water. I dure my some of the from the tail, brunging it down step by step. It

2816. I thrak you also told un that the works which on suggest would be of no use to relieve the flooded 2837. And den't you think that those who have into

as much as any other interests !-- Of course, some of the land in very valuable. There is not very mark land flooded along there, but some of it is very volumble 2818. But you have not suggested any mosts wingely those salesses could be protested 1-Oh you

by sengral works of desposing and widening the channel; of course that projects those interests 2839. Would it be sufficient to protect these in terests !-- Oh, certainly, but a larger scheme of works

2840. But what is the scheme of works which Toxmy would relieve these interests !- The deepering and of certain weirs, and the petting of slesion in others the widering of bridges and the under-pressure of some of them. In fact in the whole of these works what would be to the advantage of one would be to 2841. Have you gone particularly into these works ! ... Not sufficiently to state details--it would take a 2812. Have you made any esturate in to what their

cost would be I-No, but it would be a very large 2843 Mr. Hesphtes —You zaked a question, Mr. discharges staalf. My uncle, Mr. Samuel Haughton, of Carlow, made a mermatile wharf below the wells.

bel now. I distinctly remember after the Burren desirance was figured the difference in the sand which sume sown—it was grante mad that came down 2844. Mr. Manning (to Mr. Price).-Without say

ing anything of the actual amount of the flood waters some down at Athy, what do you think the effect of no the punction of the Scoth meeting—what per cent-age t... I should may probably about twenty per cent, that is of course in the nature of a conjecture, but I thick it would be something about that.
2845. Mr. Perey La Trucks.—Before Mr. Price goes, just a word with reference to the cridence of

alting up of the raver. Of course I quite admit that Mesers. Brown and Crosthwais see supplied by the buts. As to the islands, Mr. Watson referred to a new mixed before Leighlin Bridge. Well, that is an old island which cannot in 1836. It was removed by the company then for the purpose of clearing the channel and making it easy for the boats to go across the twee frees below Leighlin Bridge. Now, I admit it

mforming again, and probably it will have to be re-2846 Levi Carragows. - Is it part of the daty of the Navigation Company to remove those sort of blands! According to our Charter we are not bound

to keep the river at any depth.

senerge in right.

2847. Have you got your Charter here !- You 2348. Would you mind scoding in a copy of it !- Mr. 8. William You, I will, -it is in print and I thenk I have snother Hawtton copy. We are bound to maintain the mangation, but there is no specific depth stried. 2819. Have you got the weeds there !- Yes, it

but does not may at what depth the water in loads in the semmer time, as you will see by Mr. Prior's soundings, are places where there are rocky dynamite to get rid of some of that very rock, and so improved the channel

Stopeover the channes, 1800. Mr. Frice.—That is so. I cannot say that the alting less reduced the general carrying power of counce limit the draught of the bests, and I den't they read to carry rape except that the water was mointained at a higher level formerly than now. I sign of that having been so.

2551. Mr. La TempleWith the exception of inst

2812. Mr. Price.-Certainly these shallows are hard as a rule and were never removed out of the 2353. Sir Jone M'Kusten.—Those interested in

these points it is reactically as it was at first con-Mt. Price.—Yes. 2854; Stu Jour M'Kerley.—These shellows resu.

upper part of the level where the allt would not be likely to rest. It has just been suggested to me by Waters whether the weers have ever sunk. 2820. Leed Carrierows.—For what purpose was the bound placed on the ton of Carlow weer!

Mr. Price.—I think for mill purposes. 2816. Mr. Hospiton.—To give minimumal full—to summer water is more valuable to the nulls than the the summer and the wheels are not retarded by requisite speed, and the elightest back water interferes

Mr. William Describ examined.

2807. Lerd Cavitarows -- You wish to be exhe been an overcharge made with reference to Harkkone, in the Queen's County. You will had it mentioned at page 2 of the schedule for that county.

\$858. How do you mean is the charge put upon 434 17s. tel.—in put upon me, and no charge is put 2809. And their rente have been fixed judiciolly 2860. Is the acronge put dawn right !-- I think the

All Y portion, for they only will receive the benefit. 2892. You say the rents were specially reduced on the ground of the lands being flooded !-- Yes, on the ground of the state noting boolest—Yea, on account of hearg flooded lands. Some of the tenants down there have saked me to being before you the should be extended from thirty-five years to fifty

the charge is to be repaid. 2563 Can you tell whether the tonante have stuted rate is struck !- No, they have not stated that, 2884. But apparently they have inforced that he stating that they wish the charge extended to fifty made of sticks and mod, and the effect of that weir is

THE BARROW DRAINAGE COMMISSION.

count (150) that it throws back whenever there is the alightest rain two or three feet of water on the lands above. There is no way of letting the water off. My William 2860. How is the west there !- It is right across small mill

120

2956. What mill !- Wetson's mill. It is a very 2867. Mr. Messesing.-I have provided for that.

2848 Witness -I think it would be better to purchase out the smil. I think you could get it for a 2849. Lord Casmarrows,-You have with regard

2870. Mr. Hastawa-Since this question of the Lover Barrow has orepped up, I propose to go down myself and visit the locality, and as Mr. Mauring a going down for the Board of Works I think it would

proposed increase for the improvement-all you object be well if I went down with him. 2871. Lord Carriarows.-The only question w how low down the river you will go. 2872 Mr. Hamann-I will examine it for no

The Commission they adjourned till a future date

WEDNESDAY, 28rg OCTOBER, 1885.

The Commission met at La Toughe's Bank premises, Castle-strees, at 1 o'clock.

Present :- The Lord of Castlerows, Chairman (presiding); Colonel Sir John M'Kerler, Colonel CARRIEN D.L. Mr. JAMES A. CASSIDT, J.P., and Mr. RICHARD HARRAD, C.E. Mr. PENNY, Secretary to the Commission, was in attendance and read the following

Barrow Drainage Commission Dublin Custle, 10th August, 1885. Sin,—I am directed by the Barrow Dinnage Commissioners to state that from the evidence taken in

I am, Sir, de . (Simed), Jan S. Provy. The Secretary, Board of Works,

Office of Public Works, Dublin, 11th August, 1885. BARROW DRAINAGE. Six.-I am directed by the Commissioners of Public

I am, St., (Signed), W. B. Soadt, Scoretary. The Secretary, Barrow Drainage Commission,

No. 11191-85 No. 126. Office of Public Works, Dahlin, 17th October, 1886. BARROW NAVIOATION Stn .- I am directed by the Beard to refer to your

letter of the 10th August last (No. 84) and to their reply of the 11th August, and to transmit, for the in-formation of the Barrow Drainage Commission, the amound copy of their Chief Engineer's report. I am, Sir, your obedient servant, (Signed), W. B. Soany, Scoretary.

The Secretary, Berrow Desimage Commission, Approxix for Mr. Manning's report on the (8ce

2873. Mr. HASSARD, C.S.--I thought that probably 2874. Levi Carrierows.—Mesawhile I will real the respect formished by Mr. Robert Manniag, etc. "to

you may stop me when I come to any pessage you " On my arrival to Carlow on the 4th ulto., Mr. Mitchell

How was that proposed to be decreased-was at proposed to be deepened by the Barrow Navagaian Mr. Hannaro, G.E .-- I think, so far as I mederated the report my lord, that that relates to contemplated

2075. Lord Carractures -By the Bayese Navier tion Company I

Mr. Hassann.c.n. - I province to-I recome thank "Through Ardree Carel from 4 to 7 feet, at Levisions it was from 3] to 5 feet, at the junction of the Green stirl!

was many mean 2 to 3 toot of water. At Carlow a shed it shown about bridge, with 4 feet of water ever it, and resho in river, with deeps from 9 to 10 deet."

Mr. HASSARD, C.E .- That shoul is now a large island covered with outers.

Lower Barrey.)

2877. Lord CASTARDOWN-*Down to Clephenan mill, there were several should, and self 2 feet 6 trades, where a lock was proposed, but afterwards both a short distance above it, and shows and below Millerd lock were should, depth of water 3 feet *A null limit drawn about 8 feet above the water surface,

orlige to the Junction of the Grand Canal is from 5 that a makes to 4 feet."

Mr. HARRIED, C.E.—That is now I fact 6 makes to places. It shows how the river has accreted.

"In the Aidres Cazal is from 8 fact 10 inches to 8 fact 6 mehrs, to Levinteers from 8 fact 10 mehrs to 5 fact 9 mehrs, Dewn to the panetion of the Larr river the draptic ways from 8 fact 10 inches to 8 fact 1 inch, and above and west trees a next 10 inches on 8 fast 1 met, and above and helps that point islands are above in a fee river. Down to Carlow the least depth above in 4 feet, to Millbert 3 sinc 11 inches to 6 fast, as litted in above in the river letteren Montantown, and Copplemen, and two others between the lost massed place and Millbert."

 J suppose these are all absolut

Mr Hassann, on — There are such a number of
shoals in the river, I den't recollect the particular places -- Cloghovenan, all down there, there are nothing

"Below this there are some sheals with a depth of only 5 feet of water ever them, but generally the depths shawn are from 4 feet to 4 feet 6 mohen.

"It must be observed with regard to these two surveys that the soundings were taken on the miling course of the

"To reable me to report on the actual state of the part of the river now coder crime would involve a detailed array both of the river itself and the lead adjusting it, which are subject to floods, this would take a very enumber

-That is the whole project.
Colonel Canners -That is what I thought be would Lord Castagrows. - Yes, I was under the immension 2880 Sir John M'KERLER,-Of course. He shows

1881. Lord Castlerows.—And also the fact of a positile danger if an increased volume of water was \$883. Sir Joses M'KERLIE.-Yes, without these obstructions being removed-without its being re-

stored to the position is was found in in 1823 at all 1883. Lord Cartistrown "Speaking generally I may say that the state of the lateral cussis and of the vises itself fully bears not the opinions

"Darring tay inspection I observed this progress of gradeal acception owner on an many instances. I found between

the weie. I also observed at several points on the river the wrecks of old carni bean which undoubtedly cause an

"I have too turning up the secretary is use commented with a cupy of the Charter general to the Barrow Navigation Company in the year 1790, entitling them to the sell and waster of the Barrow Lagretter with the baris thereat, and such other parties of greated as the Commissioners of Island Navigation were by any law to

besides above of manignature; mer does it, so far as I can see, place any obligation on the Barrow Navagadies Company to

-We have got a copy of that charter, I presume ? The Secretary-We have. Mr. Percy Le Touche

furnished us with a copy of it-"The Company may therefore demand that no works for the improvement of the river above Addy shall be under-talen, which may rejerce their groperty, and they may main-ten that they are not bound in any way to linear the cost

particular, washed oncome arrounding one carrie on up one to particular, walk is become me to give an opinion one way or the other. I shall, therefore, cortine myself to string any opinion of what should be once to improve the present state of the reservement from Ashy demonstration—and in the first instance. I shall due so no the supposition that no works whatever are to be exceeded above Ashy."

-This is the passage in the whole report that yearles

2585 Str Jone M'KERLIE.-What he means to say be called upon to improve their navigation

2805. Lord Carragrows.—Oh, I see—that is the meaning of it-(continuing to reas)-"First.—The discharging these of the wein should be cleared of obstructions of all linds, the wein themselves stampeled, and the west boxes shound out.

of islands with selves or other vegetable growth upon them ther should be removed, openingly where, as at Leighba-heider, they obstruct the free discharge shrough the bridges

and the hack drawn behind there kept in order.

"Pourshly...At Bagnelisters where the water in the
Commany's can'd is at a high level-only a lists below the
Geor of Mr. Cressbessi's suffi and of some malting floors.

and have teen showe to the nill should be relied and interpolated before theorems.

"Ethin—At Leighthumpin where the low posts of the term are feedful and a state-ire and bound here been to be a state of the state of the state of the confess of radiag the firen free 18 to 24 is taken seep where the state of the state of the state of the state of white flower feedful exception that taken in marking a complete army of the river at this plans, and works should be the undertaken, so to make it of inflammat expansive to distinguish dook which for the hast their years at least now must flow or one of the state of t

many rate or now one arrable durage, restoring the dispensity, pulse barracks, and other bosses scientished his, as stated to see by the dispensity doctor."

-That is evidence that we never got bald of at all I think We never went down so far so Leighlinbeidge. 2888. Lord Capterown

"Stably—At Carlow securing states should be pieced in the wein the permanently freed boards should be removed, and should be replaced in the interest of the still power with movable boards, which could be quickly lowered when not required." 2880. Mr. Hanam, c.n.—Though the weir was drawned by the fixed of 1879 there was searching like below the weir according to the fixed-marks pointed out 2890. Sir Jone M'Kenner -That is, there was back water on it, but the flood above it was bisher. When Lyneke of a decreased were there was one. I terrorabler.

S feet difference of level between the water above and on the Shanzon-World's End welr. I meant where the water below was as high as above. 2891. Me Hassens, c.z.-The real meaning of a

In the case of the web on the Sharmon to which I refer for instance, you could not tall there was 280G. Lood Carrieronn-

mated, which would have power to cause the removal of

peovises, and I therefore leave at for the consideration decision of the Commission. "The physical fintures of the Lower Barrow are very different from shore of the upper district or described in my recent of the 10th June last. In the lower district the

wiley of the river is narrow, the quantity of land faceled a comparaintly isotociderale, the establishment varies in width from 0 to 17 miles and the full varies from 2 feet Above Ather the average width of the estebaseur for its meets mast by took generated his their depletes in support of their volve in regard to the several interests meetitioned at the hegistring of this report, and I have since corefully considered them, so for an my judgment grades are.

*To enter into a discussion of all the grounds on which my orizon has been founded would obline me to extend that

more or less of the character of a resiste on artered dylange, narraction, and nill-power.

"One of the members of the Commission is an emissant hybracic conjunct to whom I shall be very lappy to give any fatther information in my power if in or requires I. 2874. Sir Jones M'KERLER --- Well, the result of all

that is that he samply balds to the opinion he has en-uremed as to the effect that will be undhord by the drainage of the upper district. 2010. Lord Carrierows.—But he property, and I

suppose he neggests with a view to possible demogr, that there should be a removal of a large number of 2894. Sir Joan M'Kenze —You, but he goes beas they are under its influence.

1897 Mr. Hassass, c z —To increase the decharge

a report upon the whole question both so to the Upper and the Lower Barrow.

Side. Lord Castlatows.—Would you mind read

1816. Mr. Hamann, c.e .- I will with pleasure I

went through all the oridence very escribily in the "Biver Barrow Drainage -- The Upper Berrow at Aday

carnes off the designage of 408,000 acres, the level of the

"It is flow, under those conditions that rain falling as the purion, can fad its way, comparatively speaking, but

Under ordinary conditions of rainfall, the food water

or knowl the whose dreaming here, and so superficed maters, andheze that after the completion of the drainage works, water weeks still continue to flow but abouty off the hand into the improved cutful chamank, and that the floody for the district would be neither notion nor visions, but no the district would be neither notion nor visions, but no it is caused. Under them directoratement, therefore, the "Of the above-mentioned \$96, \$35, 900 cube feet of as-

* Sec Appendix

words from flowing over the leads. If this had to be arrival off in the bears which would be in the drawin statement of the later and the statement of the later and the l

three fact, at in their discharging about 200,000 cubic fact per salvata == 45 cubic tect per sere per salvate." That is about half a cobic foot per sere per "The River Brossa Dualuage Dustrict adjoins that of the Berrow, and is of shallar character, countring of cubicated hads of low elevation and guate slopes, alternating with

south-western certer and adjaining to a small district of signated had in the Silver Bless Mornateirs of she Old Red tree of claused develop for the

Samer Menora, 555,275, . 7,500 nervo, 1740 Sour Barrery, 608,000. 2,000 corn. 40

" The Brown district Besto the neith-west of the Burrow "It is well known that, upder stuffer conditions, the

"To is well known that, under similar continuous the food disa larger from large finitests are less in insteamy than frees these of annilar areas, and the genatest observed doed discharge in 20 years from the Brown faintest at Reclause as green by Mi. Minazing, was 267,477 colds foot year annies, or 592 other foot per new year mantee. This occurred on the Mi Alexandry, 1863, these baving been a manfall of 80 of an inche as the previous day."

"The next prestent food discharges brying been as follows -

1552, . . 235,000, . 200,000 1804, . " It will be seen from the above returns that, in a period

ners per mission occurrent secretarion any, and tong of this cost of the three occusions the excess was very slight—indeed, in 25 consecutive years—from 1883 to 1877—in may be said not to have been exceeded. "It is remarkable that in June, 1873, a related of 2 09 subset in 24 hours was observed at Tullamore, in the center

"Although no positive rule or ferrials has in this sub-ject been arrived as, I am of opinion, taking rise account be grogropical positions and similar conditions as regards downion and configuration of both bristange areas, and the greater as extent blues that of the Severa, that the huminal states Solon is at the former will not exceed. 30 calle feet when the solon is the solon of the solon of the solon of about 500,000 coils feet per crisical a. Alley of about 500,000 coils feet per crisical a. Alley "I consider, when feet is the solon of the solon of the solon database at Alley, it will be souple and sufficient to shoot database at Alley, it will be souple and sufficient to the solon of the so would then sobsettpe only a studi area for a short period, when compromisely little damage normen, and

which, being produced by rainfalls of two inshes and no-wards to \$6 beam, it would be connected by invanishin out to entitle. "No doubt, if the information given, and the flood marks pointed out to me at Athy were correct, there must been

portion out to the six Activ wire correct, tours want over person down the river there for a shoot period, during the great fixed of Suptomber, 1079, annualing live 400,000 oebb feet of water per mitrate, but this was cannot by the stermost remaind of 3-42 andso in 24 here no registered to 70 of 3-9 trainington (1 86 inches beaving been registered at Carlow on the state char), proceded on the 6th and succeeded on the 8th by ratefulls of 98 and 55 inches

2900. Lord Castarrows.-Three and a half inches of rangold in two days I

2901 Mr. Hassant, c.u.—Yes. And on that some day—the 7th of September, at Runnickillen, on the same nerallal of longitude as Tullumore, mike distant, the registered rainfull was 1:40 inches, so that this great sainfall would appear to have been general over a very large district. I wrote to Mr. Bruce, who got me this information as to the local ranfell-I could not believe in this 3.95 makes of racofull at Tullsmore, and thought it was a clorical error, for 1-92 which would agree nearly with the Culow rainfall, but he made mourries and found that it was quite correct. (Reading continued)-

"I am of opinion that the drawings of the Upper Burn "I am of openion that the framangs of the Upper Darwoe built common by reported section of an unificant restriction to be local univergence were at Authy, and the treech being inter-dividual solvers. In the chair result of the rever between Auth-aud driver local: being despend and unified in part of the destable like his law for fish No or to othe Greant Control connecting its with the river. Barrow, which will greatly forfitte turthic between the two manipulsors, and imma-leting substituted for waiter power at Archen Mill: By this arrangement the Delect were at their good be recorded and

2902. Lord Castlarrows - That is the teack bridge at Athy—just below Athy!

2166. Mr. Hassam, c.n.—The track bridge is a
headge for the tracest of horses.

2501. Lood Carrarrows.—Yes, I know—it is the 2905. Mr. Hassant, cu.—Yes, jost below Athy.

"But the new weir with its attrillary slotes will be a couly work and the slotes will require attributes and supervision. Under these promputations, as the mill as well consideration, whether is might not be better to focus the out of attachmining steam for water gover to belte can also instead of execting a new with and believe, and I sweeting the drawing mackings out will not "Mr. Manning's contract of \$414.694, including the pur-

preferenced charges for supernitrations, Fey I, Tomator manifected, taking also amounts the present count and the taken of the supernitration of the taken of the supernitration for an II have been able to see me bow the matter — for the modified, discharging capacity of 550,000 or the first of the present of the supernitration of the color first of the present of the supernitration of the first loss of the supernitration of the supernitration of the first of the supernitration of the supernitration of the loss of the supernitration of the supernitration of the loss of the supernitration of the supernitration of the first loss than 2.525,000, or probably \$500,000. That ends the Upper Barrow,

Revoer, as to the agreement suggests on the Lower

"As for as I examined the river he channel is in a similar condition to that of the Upper Barrow—it is obstructed by R 2

write erected for the paroone private parties, and one instance (at Millford) of the by periods pattern, one our meaning our handway and mellicowers, for the purpose of enlarging has mill having extracted the budding about twenty fire fact rate the river, and having no permanently blocked up and rendered melian the custom such of the hadge carrying the public road over

"In ventors parts or not rever and, as selected never been ferred, they have been planted with select, by (as I was informed) the Novigation Company—the result helps a regist enlargement of the electronism by the silt and detectes arrested by the roots and branches of these plants. Two notable instances of this occur at Carlow and at Lagishborhogic—

(At Carlow, you will remember, according to Mr. Malloy's report fifty yours ago, there was simply a

"where large minute so planted with orders exist in the river inscreditably share the landges carrying the public roads over 8, greatly lessuang the waterway of the river,

principal arches.

"The corn and making atoms at Cerlow, Millied, Leighlashridgs, and Boganitzow, have to all eases here beth at low lovels, generally speaking, with their lower flows show the level of present highest floods, so that it is conceilmently accessery to form small reseprate of codes.

nite recently heift at LeichKabelden by Messen Watson and Bosler.

"In most metarron below Athy, the flooding of low lands adjusted to the erver appears to be outsed by the weirs and works of the Novegetien Company and the insufficiency of the back drains where the level of the river has been

the back divide waters the mean of the larve and been scatically raised.

"The Navigation Company appear by their charies in lave the cells monopoly seel control of the river, has there does not need to be to it may obligation to make the there does not need to be to it may obligation to make in a specified depth of water, or to keep the river from as-jurious charrentees, the result heing no I have described

juintum chairmeterus, the result heing as I have described at not so leng as there reseales waterway in width and oright neckmant for the passage of length, no treatile stems of the property of the second of the contract o

that foods is Ably would to that attack, it increased, the direction of the food world in proportionately become, and it no of opinion the recy bury foods, latting in the proportionate proper district sides the competition of the Davanage Works proper district sides the convenience of the Davanage Works and the property of the contract of the property of the contract of the Davanage Works and Ably by from 80 600 to 100,000 cable first of work report of a foods, instead of on some first the Lower Berrow as part of a foods, instead of on steep, their practice of the contract of the con smaller vibrate and for a langer period of fame in the seasor part of a flood or chrising its management.

"This can be dealt with by removing some of the existing obstructions, lengthering the webs or plending marriage shapes at them, and providing adultional underway at more of the holdges—peakably scene of them should by takes down and relating but what the pressure remedial measures should be, and their cost, can be determined only by records

"In my judgment the proposed Deninage Works for the relief of the Upper Berrow district with not lesses the summer flow of the street of Alby, and no apprehension in that respect nord to encouraged." The Commission at its rising adjourned to a day to

for the reception of evidence will be held

TUESDAY, 17TH NOVEMBER, 1885.

The Commission met at Le Toucho's Bank, Cartle-street, Dablin Present:-Lord Castrarrows, Chairman (presiding); The Right Hon. Mr. Baues, D.L. Vice-Chairman; Sir John M'Kerler, Colonel Carder, D.L., Mr. Richard Harrard, C.E., Mr. HUICPSCRY SETTS, and Mr. J. A. CASSERY.

The Socretary, Mr. PENNY, was also in attendance

Mr. Penny read the following correspondence:-

"Barrow Desirant Committee "Carlow, 5th November, 1855. "Sea,—I has to reintervieles, with theeles, the receipt of core letter of the 5th animal, enclosing copy of 5th Manning's report on the Europe Barrow. I am directed to flavourille so the decomproper group of abreviolation passed at meeting of the Barrow Denings. Conception on only

> " I am, sir, year obeliest servant, "JAMES KRIGT, Secretary."

" Corn., No. 180 "Breaktion passed at morning of the Begrow United "Heatman parton at mering of the Astron. Committee, and the Carlow con the 6th of July, 1863, to protect the interests of person resident in the district of the Lower Barrow. shided in the cuttient to be a complete former before the first of the Harrow Drainage Committee, held Carlow on the 6th November, 18-0, it was prepared by Wilfred Hampiston, Eng., according by Saxuesi Ovembrail, 6th. Reselved—Thet, with proopning the great value of

designed of the Upper Borrow, we are mainten to suffigured from wilsay, whether by Boack or designing, then carrying and the sufficient properties of the Lower Borrow, and better, year Mr. Mode backers of the Lower Borrow, and better, year Mr. Mode beat effected by (1) the reserved of symmetric that this exist he hast effected by (1) the reserved of shartcoulds from, and by realizing the countries of the left of the Lower Burrow; and (2), by consuming the con-traction of the lower burrow; and (2), by consuming the second parameters where on the statement of the con-secution of the second properties of the con-secution of the second properties of the second properties of the second parameters of the second properties of the second parameters where one that statement of the second properties of the second parameters of the second properties of the second parameters where the second parameters are second parameters. be not current out, of denough by focus m wet weather, and of inpury to assignifies and drade from intentional water in dry weather, as well as of injury to the health of the in-habitance of the low-long district, who thready suffer much from floods and sandaness through.

"Signed, P. D. SEACKLESSE, Chairman" Lord Carraggors - As Mr. Munning is bore, by Mr. Peweg.—Mr. Price and Mr. Houghton are both in strendung on behalf of the Surrow Drainage Con-

d made digitised by the University of Southampton Library Digitisation Unit

Lord Castlerows .- Well, we shall have Mr. Price and Mr. Hanghton here present also, so that they may here what Mr Meaning but to any, and they may have area questions to put to him.

Mr. Price and Mr. Hangbon then cutered the room.

Lord Casyllerows.-The Commission, Mr. Price will ask you first to read your statement on behalf of

so that if there are any things in it to which Mr. Manning should reply, he can have an opportunity of sloong so when he gives his evidence. Mr. Price.—I think Mr. Haughton is better pre-

communication with there

Mr. S. Wilfred Hausdton examined.

2507. Lord Carrierows. - Will you now read what 2906. Lord Carraprows:—It has been read to the

Fitagerald, the Board of Warks Valuator, -- a gentle man who is a civil engineer, and who is on every grams. He in his evidence in reply to you, my lend, grams. He in his evidence in reply to you, my lend, grees the following answer. You sak was there may damage done by the neek being too small so let all the water go down-was the damage done below the and the people told me the floois were far and away larger within the last few years then ever they were before." Now that answer applied to Esthaugun Dramage, and argumentatively we say that we have where we are, and that there would be a greater real, of the upper visiting to the lower waters if this schema is convisi set. Mr. Fringerild stand that all the property along the Barrow had lost half the value There was also a large district group into the Barrow below Monasterovan, but both these districts have Barrow, though Mr. Manning tells no not to be strain. Yet have in the Board of Works' awa valustor giving that evidence. Then at question 49, the question is put to Mr Fitagerald, "Do you thrule the rentall has more send of late years," and he says, "Ok, orthody." Dr. M'Cale, the Poor Law Inextember passing through the water on the Great Southern and Western has when the whole country on both sides was an unbooken sheet of water That has reference to the fact whether Cleary Bog is or is not a reservoir. Mr. Managing curs at an an insignificant thing—that in fact it is better to get rid of it. That appears to me to be the chift of his evidence. He says it is insignificant because there are only one or two fact of water over it, said that when his full it is no reserves. Now I draw your aftenton to Dr. M Cake's evidence; "I have been in Empaterran when the river was in flood. Monas terevan is especially thooled, and of course I have been through the country which one impresses by the unbroken sheet of water. I have seen that, and have ind consukrable measurers as to whother we should le able to get through it swing to its depth on the the." Now my query and the query of the Barrow Novigation Company is this—if Mr. Manning's out

river. In his reply to Mr. Bruca at question 199, he

the asymptom, but it is the velocity with which the water as sent past the navigotion." Well, in-creased velocity amplies increased height and volume about 218 feet. If the Great Southern and Western line was covered to a depth of one foot, according to stead of two feet. According to the figures on the map, the land near the junction of the Stradbally giver with the Barrow in marked 193 feet above datum, while 318 is the flood figure, which makes a difference of twenty-five. I don't mean to say that that would be a for thing to consider for the entire bog , but the flood is a great deal more than two feet—that is my opinion. I have seen the bog to caucity the same state as Do. M'Cate described it. Now Mr. Manning mys at \$12..... If once At Now Mr. Stilling mys at 242—"If once during the winter floods you plane the Barrow at the level of the Duke's weir, and that the rain occursions and floods the valley of the Barrow, all your lands will be flooded. The whole kend for 40 000 or 50,000 ages is now flooded to an extent of probable up of that reservoir of 50,000 acres." Under the conditions stated, I arrherit that the ripurion residents tracted outlet from the log through the present styer chemnel at Bust, and which protection Mr. Marning ronoses to decrive them of altomaker. Mr. Morning says at 245- you will find if you drain the Barrow you will have higher water in the Barrow oftenar than naw. The facels will be overally distributed over the eather will power or navigation which is absurd. It as kanardous for a man lake me, in the presence of gentlemen of such experience to my that; but that is Mr. Manning that the effect of arterial drumare will certainly be to increase the maximum supply in summer, and he adia—"By the court dramase summer, the as some—by terrotage arrange, expensilly, we get rai of the suciess fixeds which are an inconvenience." I sak, why was this not the case with regard to the Rollanges dramage—are Mr. Fitagerald's evidence, Nos. 16, 22, and 28-38c; mas like role. The water comes down in Slood there one I will not the Commissioners to give their attention "Are there not many instances, owing to the , have you heard complicate on that subject ?" His answer is-"I believe there were camof 160 by 94 was in operation previous to this fixed plants short that; but then they thought it was before

for them to have a medicrate saturation than floodings."

no. 12, 1911. My observation upon that is, that that applies also to Mr & witned Cloney bog and the water mendows burdering it.

shink the result of the dramage of 50,000 acres on the Barrow will so ingreste the water of any time that it shrices in the Sharmon from one cod to the other, and expressions as we do on the Barrow. But those sinion have not changed the practical condition of the Shannon at all. They let off the waters from the recovery. When the floods come down they are imrecorded in the reservoirs for some time, but there is Beriew for the like purpose. I submit from that evidence the only logical conclusion is, that that is what should be done. Mr. Bruen very properly at the time said...." What you propose to do in to take away anything in the shape of a reservoir that now exists." the result in the sucressed quantity of water will not be appreciable at Carlow or further down the river Broom at 235 anks-"The country through which relized of water-is at present senething in the shape congredy and displaying it grodually, is not that so ! and Mr. Fringerald who undertook the actual survey of it were unable to proceed with their work because the lands were flooded up to the mouth of July." be enswere..... I would suppose after a heavy minfall in the valley of the Bursow above Ashy, a food might get off in a fortnight or three weeks or larger seconfrag to ch cumstances." He does not commit braself positively to that, as a matter of fast, but gives his opinion. At 238 we find that question-" And the works which are now proposed to be done will enable all that water to be discharged in a few hours." His answer is-"Yes You see, although the hand is flooded, the rainfull in discharged, the only difference being that in the one care it is discharged over the lands, and in the other it is discharged below them. You see not to suppose that because the valley of the Barrow is subject to flood, and under flood for a long time, that the land. Now, then, instead of having that dischurge over the least, we satend, if this project is successful, My observation upon that previously was that the tion..." Then I may sufely assume that, practically

port back again." At 358 he is select-" That, in port block against the upper portion of the Eurow, and serve the reservoir, so to speak " The anaryer is, " Yes." He is asked..." And by reason of these strines you would be able to offlite the water." "And appropriate there was a dry number, and you trust to the Duke's weir as a reneweir, you wend out off the unpily from the lower part." The reply is, up a constant level-a constant supply." My obser bog, the floor of Ma Manning's new river being time fact above the even of the Duke's weir-see his answer

2103. How do you mean could not control the set ... Mr. Price —I think that most be a mistake with mrd to that snower. I think it must be "below" regard to that corwer. I think it must be "below" instead of "above" The nanwer is-" The Duke's weir is above the bridge. I have not the exact figures here as to the height of the top of the Dule's feet above the crest of the Duke's weir." I think it Mr. Meaning.—It is below, containly. That is one of the objections of allowing an uncorrected pract

Mr. Bayes.—Then I would suggest, that being as, that any objections which Mr Haughton may have Mr. Manakton -I have to apologue for taking up committee suggest, it would so wer all purposes, but a fall of 1-3 in the mile. In a cut five miles long would and the top evest of the weir would be about the level 2910. Lord Carrierows -I think that is a

matter very much for Mr. Manning to give his 1911. Mr. Hangliton -I. think. anterms fleeds, that two feet is not a sufficient estimate for a winter flood on the bog I shink it as mask own the land at the Junetice. I don't know the country well, so as to speak from personal know ledge. I can only speak from the Ordnance map ledge. I can only speak from the Ordning our Mr. Manning's report on the Lower Berry makes no reference to may special provision to quired for the reception of an increased supply of water from the drainage of the Upper Bayow He advises the removal of certain obstructions such as weeks, and old boats, do, about which we all agreed, and specifies at Carlow fixed boards on the west, and also recommends moveled out in place thereof, as to which I am requested and outhorised by Mr Shackleton to say that the boards are not fixed permanently on the wen-They are merely had on there. They are removable, and are removed at food tides in a few minutes. I exhibit a photograph of the winter aspect of the weir at Carlow, showing no buscle out the year" Mr. Mannigh snewer is -" The works would tend to equalize it." Then you sale.-"And that these would not be in summer time too of February, 1883, for another purpose altogether than for the fragury. Mr. Manning's report galaxy that at present the tiver rises at, in one place, never small a quantity of water—that it would not be lessened to an appropriable extent." Mr Manning feet in fleeds. He says not a weed as to what would for instance, with regard to the main Barrow at Athy.

happen if it ross higher. It gives an interesting extract from the late Mr. Bernard Mullins' account

the result in the Barrow from these works would be that you would have an equal flow of water through-

save.-" The symmer water would not be leavened-

The design was to uphold the Dake's weir, and to put a number of altion in it that you could take down or

of the Barrow Navagation, and another valuable ex-Mr. Mallina, soor, on the inexpediency of canalizing rivers, and concludes by ashering to his previously expressed operator. Mr. Pittagrand's evidence alove Manning thats his eyes against the deductions, obvious from the facts stated. His observations on the invary of revers, overy conviction by measily stating them. So engineer of reports would for a moment discusts So organize to report women for a floating measure them. But Mr. Manning centre to point out who eaght to do what is requirite for the renoval of ob-pressions in the Lower Barrow. Permit up to refer reactions in the Lower Barrow. Formings to succeed you to the journals of the Irish House of Commons, Fin September, 1763, 1st June, 1709, 10th March, 1753, when the Royal neamt was given to a Bill sucading an old one of the raign of Henry VIII.

it would appear as if there was a local obstruction

the first war of menov-42,000-was around to the No. 15, 1886. Bight Hen Charles Earl of Drogheis, Sir Bishard Butler, Bort, and a number of others, to be applied the Irish House of Commons, after expensing large to the unusual Barrow Novientice Conventy of the whole House to cognider a Bill for the handing over the river and works to the present Company, whose first account was columitted to Parliament tribute to remedy the evil.

Mr. Manning, c.m., re-exemined.

1912. Mr. Prier.-- I have only a few questions to sk with reference to the Duke's wein. Pechano Mr. Manning would say how exactly it is to be dealt with -are there to be stators throughout the whole length of it, or part of it, or is it to be swept away altogether? mering of which will be equivalent to its entire re-

2913 Leed Castlerows. The mixing of the dances - Yes, that the rathing of the singer will be

2914. At certain periods of course t- Yes-that if water altogether, so that there will be practically no 2015. Mr. Price You say if the Duke's wein in rewith reference to floods at all, but with reference to

& would not us a nondant incorrain if it had alsies to have the effect of pending the water ! 2016. Lord Castlerows .- Mr. Marning says when

Mr. Mouning.—Quite so. Mr. Price.—We went to know if the Dake's weir is

Lood Castingrows.-That depends on whether the 2017. Mr. Price, ... It is part of the design that then are to be sinices there expands of helding book some of

the water in summer time ? Mr Museuss,.... I think you will find it stated in my evidence that that would be a matter for sevence next hereafter-whether the weir should be retained or enterely removed, and the navigation and mill power enturely destroyed-which would be the cheapens -which would be the proper thing to do-a maker

tom which I offer no operate.

1918. Mr. Price.—We would certainly press for the teragation and for null power during the summer.
29 19. Mr. Hemphon.—We are sunious to have

Cloney hee Mr. Proc.-At questions 307 and 508 it is dearly hid down-it is not contingent on anything-that the Deke's weir was to be maintained so a reservoir. 2920. Sir Jour M'KERLEE-Is not the Duke's

weir solely kept up for the purpose of supplying newer to the mills! Mr. Hampites.—No, sir, it is a navigation weir, and there is a lock in it for the purpose of navigation. When I was a low I successful to have seen sets con-

Cloney bog, and brought there. They passed up to Cloney bog, and brought down turf. 1921. Sir Jone M'Ernite —The Barrow navigation does not extend beyond Athy? Mr. Hassolton,-It does-there was always paying tion up to that boy. Long before the Barrow Navi-gation Company there was a local navigation over the river. The cuts have the right to go up and down through the Duke's weir without paying snything

think, however, that that truffe is at persons probably yayy little indeed 2922. Sir Jose M'Kennu.—Bet the ravigation

welr peoper is upwards of a unite below Ashy?

Mr. Hongelton.—That is the Bearow Navigation Cumpany's well. 2923. Sir Joses M'Kessatz.-And their navimation

Mr. Houghton,—Certainly; you are quite right. 2024. Sir Jone M'Krane,—But the water to not

Mr. Manning | Is the unit weir kept up for the purpose of supplying water for the Berrow Navigotion

Mr. Houghton — It supplies water for the local traffic net for the Barrow Navigation Company at all. 2924. Ser Jour M'Knattz -- It has nothing to do

Mr. Hanniton -It has to do with the Barrow navigation, but not with the Barrow Navigation 2937. Sir Jose M'KRILIE - I remember the look

very well It is morely for cots or small bosts.

Mr. Prim.—I don't imagine that the owner of the reff! there could do away with that werr without doing injury to the public by preventing that con traffic, which he would have no right to do. 2923. Mr. Hassand - Is there may truffe there now in cots, for it appeared to me that the look had not Mr. Price-Oh it is used.

2929. Mr. Hattann,-The truffe of cote appeared to terminate at the opposite side of the river. The lock appeared never to be used. Any traffic in terf maxis to turn into the wharf at the opposite side of

2250. Mr. Priss.-We would like it taken down on the notes that the Burrow Navigation Committee desire that the Duke's wetr be retained and have

is. Marolas.

No Han

states in it. The strines would be advantageous in equilibring the summer water.

Mr. Heapters—I would like to have Mr. Marning's acover as to whether the Dake's water would have the effect of helding up the water in

with M. Prisc.—He has stood by would set as as hold up the arrows water. It find not conclude that Mr. Martine, There is not mostly that the Mr. Martine, There is no mostly below the first has been as produced by the state of the state has been as good and difference and operation there and their first loop questions have been made. In this choice and with the first loop questions have been considered for the statement in to the sinehops of this tree of the discussion in to the sinehops of this tree of the statement in the first loop and the statement of the discussion in the first loop and the statement of the statement in the statement of the first manager in the wink that were a related statement of the statement of the statement of the statement of the point of the statement of the statement of the point of the statement o

deal depends upon 9. The whole question belte concess be, will the Barrow when dealered discharged more wasted or not be about the dealer of t

indice it was minimal—evere 1991.

\$31.4 Mr. Almaning—No, nor do I think that such observations have been made in Ireland. Why, in another to obtain the ancestmen flood of a river in the asternal rates you should get the discharge for always probably to yours consonatively, and certainly the Drainings Operational and not wide for the years before they commenced to drain.

ourse any communion to usus.

*2024. LOD Gartzerows.—I think that is a rush
smertim. The Board of Draining Commissions*
wided a great many pears to do certific things. It
have a great many desirage wayts which are not
carried out yet, and it was intended to have then
carried out by years ago. They could have get this

carried out yet, and it was immense to have some carried out 30 years ago. They could have got this information if they wanted it? Mr. Mannang.—But certainly they never did, and I don't think it would be worth much if they had

gol 80.

— Yea. With regard to the quantity of opinion I — Yea. With regard to the quantity of water that would be sent deward, a would call the attention of the Communication to Mr. Phint's evidence other at Albay co Galviny, where he definitely solicid that in line opinion the maximum quantity forwing divers at Andry would not be increased, and present principal and the control of the contro

with a lard appunish in its spin of the conpage of the large of the large state of the large of the \$916. M. Préce—I allores exactly to what I stated—I believe it work to increased at Alley, but I mai that the utilizations believe Ally had time to throw off their fixeds before the main body of water timed in Gad, Soy I thank it is extend that it tech mixed in Gad, Soy I thank it is extend that it tech mixed in Gad, Soy I thank it is extend that it tech mixed in Gad, soy I thank it is extend that it tech mixed in Gad, we fix the similar to some force in Oppos Berrow, sed it is said lower, I think, that if

this sobuses is escried out it will only take ton or twelve boars in future. Therefore I enthroly agree with Mr. Mazzing, as fire at the good-date too fixcharge at Aday, will be the assess; but believe Aday, when the regard truthardes once in-Bote effections, will next the foods of the Upper Borne and will cause an irrectable. Have reason for two varieties of it in extinction to yolds more of the discharge of the Postons, appropries by Mr. Millermay permits to the

Brosna—prepared by Mr. Mulvanny powers to the prive losing distinct. 2337. Lord Comparence.—Where is it—in the Beard of Works! Mr. Frie. —I think so.

2016. 100 Jane M Canana. Which Mc Milways do you refer to 1 Mr. Prick.—The source Constrbined reds. disk, of you refer to 1 Mr. Prick.—The source Constrbined reds. disk, of the source constraints of the source constraints. Source constraints of the source constraints of the source constraints of the source constraints. Source constraints of the source constraints of the source constraints of the source constraints. Source constraints of the source constraints of the source constraints of the source constraints.

2010. Mr. Price.—Pres—that is further down, and I ammed the television—the riven Groon. Douglas, and Lerr—all very capit rivers which used Sensecty to rue their floods down before the main food came down. There is no destre at all about that.
2041. Mr. Hassans.—Your assumption new is that the floods will meet?

2013 M. Free.—My assumption to see that by every fine the result of the control o

2943 Lord Carriarows.—Is there anything eleyou wish to say! Mr. Prix.—I don't think on 2944. Lord Carriarows.—Orany question you wish to all Mr. Manning!

to ask Mr. Manning? Mr. Pras.—No.

Mr. Homosop's examination removed.

1465. Mr. Benniep's—Indir visit be rotes also
any discontinue to the T. Ricoglisher orbitase set idfle diseguent manage—Indir visit be to come any
any temperature of the set of the s

Husghten to consider this _that suppose these leads

ages fisciled to an arrange of one finish—that is true for at the deeped part and giving off to nothing—to will find their the 23,000 seros of hard would half a measuram ethology of 00,000 or oles forten instead for four days, and I would put in to him whether any such maints cours from the findings of these loads; are maints cours from the findings of these loads; now you have pure given I—Three ser about 23,000 nows of

here just given 1—There are about 25,000 acres of band Booled. 2947, In Chung bag 1—In the whole. Mr. Houghton—I would my thore would be 123,000 acres if you take in the bog. 2948 Mr. Mousing.—I say with 23,001 acres having one feet in dipth. Ten acres would held one

fool go are the rulewy—for three was evidence genes by Dr. Wichols that it want were the milway ! liven the insignificant opph of one for would, as a station of foot, both the maximum duchange of (40,000 spine that per amunic fac forty-two locus—way foot; sight learn. Do you think that any man breathing could cattricty prevent the whole of this 100,000 coins for yet amunic from ying down.

Mr. Priot.—Oh, no. 1401. Mr. Matering's evidence is the most convincing evidence to me of the submitting of Clessoy log as mostever. I think his observations support my view. If he benish down that most rear by a channel 150 feet who and 2 feet deep, he will do a great total of misshird.

JOSE Mr. Priot.—With regard to a reservoir of \$100.

that both we derive up that the whole of the fixed in you to be found by the point of the fixed the which does not be found to the fixed f

29.8 Mr. Honakism — Locking at that flood Dr. MrCoke species of, I enrants bely souting my approximate, that if it were allowed to escape through the new out proposed we weed to all drowned.
3914. Mr. BRUISK—I wash to take the opportunity

at state-tip, Mr. Maning, to your convey to a quantitative state of the spanning designation of the spanning designation of the spanning designation of the spanning designation of the spanning designation. At NS-53 in the verifices. I find the your designation of your top you design a fine of the spanning designation of the spanning des

vo. 311, year assemant datas the falling of an incis and a half "res. 11, 10.00 of reas in investigative bears will rese of an enverse as a consensus in a complete injuscibility—in facts, at a second to the complete injuscibility of the consensus and the consensus

being generalerated by assume that that not suppose to the property of the property of the property of the O'N extensived list of the II receipted such that the fifting to the oppositions would have seen two to a limited by an authority of the property of the limited by an authority of the property of the limited by an authority of the property of the twenty of the property of the property of the twenty of the property of the property of the twenty of the property of the property of the boundary of the property of the property of the boundary of the property of the property of the twenty of the property of the property of the twenty of the property of the property of the works, and I award yet I award as well as writing, and I award yet I award as a supplied a works, and I award yet I award as a supplied to over the I also that the twenty of the property of the works, and I award yet I award as well as a works, and I award yet I award as a property of the out. I had not been I award yet I award as a supplied to works, and I award yet I award yet I award as a supplied to your II. I also the print I award yet a yet print as

Precical.

1907 Bits supposing that I was to after the figures;
and to say that the fixed which now takes 130 hours
to was off, an off in girty hours—that would brung viwithin the limits of possibility, wealth in to \$I - I dan't
know at all. I really could not say.

2100. Fore possibing plant a fall of one and whalf

200. Year point being that a full of one and whalf inches of minn twenty-four bours could not run off in twenty-house bould run off quecker than it fell—pritting it at darp hours at would not run off quecker than it fell—No. 2467. Then it would come within the runge of pos-

of stitliny i—If you course the data you have taken to these—that is that no said a half unders of near will sold be running of the substance trader extens current or stances, instead of you having one outer fort per sore per memory you will have nearly facer cache fort; per sold seers per memors which as impossible.

1. I am not absynching that—putting the questions of the person per memory that the person person of the person person of the person of the person person of the person person of the person pers

See I am not appropriage tense—pooling that queseller would be impossible, but I want to be part a question of which would tening it works the foundation of an in order that you may grow your assure to it is a top intended and open and the propriation in writing and you have the adoles—propriation in writing and you have the adoles—propriation in writing and you have the adoles—propriation in writing and you have the adoles and the tables on the fill give to now. 2500, You may the shadestope of the assure quantity or water takes place in executable of the takes quantity of water takes place in executable of the takes of the quantity of water may be increased in vertices—100.

1909. I want to know whether the effect of year works will not be facilitied the obsolator of the waters, and in point of tass quecken them recey much in composition with the way they are more distantially of the composition with the way that year with the composition with the water for the water. And distribute the water more conjugate even the year, but this more quantity of water with with corne down.

2011. Two, the is taking the whole year I—Taking the year than the confidence of the water with the water w

as the mentionin food is will lobe (believed).

"265] Yes any then that is a smaller minfall, not matter what may be the dupth of it, the volume of its major articular will be included by resone of the major at the could will not be increased by resone of the could be included by the country of the countr

Mr. Mission.

2945. May I sak you why you draw a distinction between the summer fleeds and the winter fleeds when the effect of the drainings works you say may be, and probably will be, to increase the volume at the point processy of the summer floods, but not of the winter floods!—Yes

2966. May I sak you your reasen for that !-- My reason for that is that in winter, and sometimes over bear the stones of the large quantity of water that is sver the whole Barrow catchingut—when the water comes up to the maximum height on the lands—then

2167. At present, you say 1-Yes

2918 But is not that rather contrary to the evidence of our eyes and the evidence of those who have are and over the whole flat beg at Clancy, and that

2969. Surely the effect of the rainfall in summ when the land is dry seed in not naturated, will no

2970. But that estenation having been effected

2071. That is caving to the capacity of the soil to is much less in surroger than in winter.

2972. Supposing that saturation to have taken piser, the summer flood and the winter flood would

2075 Another oxcetion I would like to ask form as to the works not increasing the volume of water large portion of the sort and subsoil on to enable the ground to take up a great deal of manfall by automation, and so hold it - The runnings of infiltration and artern-

to perfect esturation, and there is no avaporation during the winter fixed. Thus it is that mistakes are

2975. It is your opinion that the merimum disevery other profession, there are differences of outside

chose as to the competency of the person giving it.

2015 You say, so a general proposition, that the strikings of the heads of a district does not invesce fixed by The dramage remains storessen the fixed to The dramage remains storessen the fixed to the point of onlike.

In a large district the different rivers will not come in low in that respect. 2977. I have seen the evidence of Sir John Haut-

2978. Str Jone M'Kenter-My opinion is that Sir of thorough drainage—not arterial drainage 1979 Mr. Brouss—I have remarked that there are

noses with regard to thorough drainage, but I dust think Sir John Hawkshaw puts any qualification remittee of the House of Lords upon the Conservator have been witnesses examined before to who have over you straighten brooks and cut off their bends. would be resee likely to cruste floods. I have no servations of himself and others-and they nearly all agreed—that the drawings dri not ingrease the flools. 25'80. Lord Castrarrows -- As you are on that neigh-

That is, it forces rates water on the lower 2983. But the quantity of water is equivalent to the height of the food. If there is a kerye flood the quantity of water is higher!—That is, in the gree

2163. That is, in the flooded portion of the hard !hat is an entirely different eventson. 2984. But this is what's want to arrive at If you the lower dramage shatnet, do you counsier it would increase the flood on the lower draining district!-If I

none down more water.
2005. If was coul down water from the upper dramage district and that the lowce dramage district send down a greater quantity of water 2986. If you send down the water of that district?

-That percer went down before

\$988. No, the same quantity has passed through it but has passed through the small streams—but if you seed it all down by one central river into the lower district which has not been drained t—I really cannot understand

1860. Mr. Hassan.—Supposing that the water near generation in the fooded famile show disrentatigeneration in the fooded famile show disrentatisism of the rate of forty. (Bit), or destroy for the families of the fooded families of the convertices look, and that it possed down the rive, in one there look, and that it possed down the rive, in a qualite of the language, will not the fixed at Auty district the fooded families of the fixed at Auty proposed the river serve you will like that flood of an elementation of the fooding of the lead how onlying (so be with it. For every your will like and to convenient

2920. Bit I say, supposing you should prevent the sourcestle from Billing and deal year put the water sourcestle from Billing and deal year put the water that the sound prevent the head-never which is would prevent at the relative to the sound to be prevented to the sound to th

in down at Ashy. That is the point.

3901. Mr. Hourseast Sperra.—But you have a
greis many small distincts here all contributing to
the art Ashy. There been reading over the ovidence
given with reference to those Gonzarvanay Boards,
and I think there are thinky or forty negligeness stating
that the fixed has been increased in the lower
interests.—The contribution of the contribution

upper.

3992 Mr. BRUDE-I wish to refer to the less question put by Mr. Hassard, and the answer given to it. Xee say, "for once yes will have that necrools filled up, but outly for once." What do you need by "for once." I mean in that perticular fixed.

someticle to the cofinary maximum i—Yes, the fact would be carried away goadnally before it would committee to the maximum.

1850. Mr. Baum.—I would wish to rofte to the inforcement of contino what exists among engineers on

difference of spinion what exists among engineers on the design of the spinion what exists a mong engineers on the spinion of the spinion of the spinion of the of the spinion of the spinion of the spinion of the other which first the spinion of the present Speaker of the House of Commons, or gentlemon who has a great deal of experience on

the field Cremittee of the Rose of Loofs was $p_{\rm manus}$ and the Court Court of the Rose of Loofs was $p_{\rm manus}$ and $p_{\rm manus}$ and $p_{\rm manus}$ and $p_{\rm manus}$ and $p_{\rm manus}$ are the solution to the court of the Rose of Loofs was a strong of the court of the rose of Loofs was obtained as the court of the rose of Loofs was obtained as the court of the rose of Loofs was a strong of the loofs of the rose of Loofs was obtained as the rose of Loofs was a strong of the loofs of the rose of Loofs was a strong of the loofs was a strong of the loofs was a strong of the look of the look of Loofs was a strong of the look of Loofs was a looked by the look of the look of Loofs was a looked by the look of Loofs was a looked by the look of Loofs was a look of Loofs when looks are looked by the looks was a looked by the looks of Loofs when looks of Loofs was a looked by the looks of Loofs was a look of Loofs when looks of Loofs was a looked by the looks of Loofs was a looked by the looks of Loofs when looks of Loofs was a looked by the looks of Loofs was a looked by the looks of Loofs when looks of Loofs was a looked by the looks of Loofs was a looked b

drainage questions, and who, on agazzination before. No. 17, 1704

many 54 - possible at the sign of the three the many time of the sign of the sign of the sign of the case the sign of the sign of the sign of the case the sign of the sign of the sign of the case the sign of th

and he concludes his answer by saying-" If I may survice that branch of the subject further, Mr. J says, to shoot suipe for some days after the rum had on it. The condenies which he derives from that is that it is quite repossible to maintain that such a rapid and complete escape of water could take place without a surrous effect on the same mand incomes of the fiscals, and he could not help thinking that year by Now with reference to that illustration that it will be nearly a parallel case to that which Mr. Glinion gives 1—No. I think I had better study my opinion distinctly, and it is this, "When you interove the surface of the head, say by cetting down timber or removing obstructions to the five passage of water or the surface, all much operations will increase the thools all therough drainage or sub-soil drainage will tend to decrease them, and for this very obvious reason, thus supposing the whole surface is composed of tin and is perfectly impervious, the whole water falling on that serface will be discharged, but if you put over that

tin five or six fact of earth the water will enter that earth if it be a free sell, and will be discharged into the river eventually. I don't think that anyone will

my that the water won't take longer to go through

Mr Marning,

there or four feet of sall in sector to care the river comes than it would life two adversely of the numbers. 2007. Their is dealing again with the solvest of attention "Astronators, providentiary of inflictations, submitted" a Statistication, providentiary of the opposed to that of this groutlense we are here referring by who had that discussing and embodd dealing tred to increase thought II had the opinion that they will not increase the maximum though. They will in-

diabage on the tree more own.

2019. Well I need not precood further on that
yout, year divergence of opinion is so manifest—16to not satisfy in the domain of opinion, because we
have the fact that in the Breass further the maximum
discharge was greater before the lands were occupately
draund. The bargest discharge took place before the

dramage of the district was completed in the control of a district was completed in the control of the district was completed in the control of the control

occes that were drained. In the counse of the drainings the greatest discharge was in 1851, which was 267,000 cuties fact a minute.—But that was 5000 Mr. HUMPILLE SERVEL —But that was before the drainings —It was during the drainings—

were 8,000 serm not yet dramed.
30%. Mr. Hespiton. There had been shout threequarious of the work done.
306. Mr. Menning.—And ever since we have not had snything like that. 200,000 or 220,000 feet per querie is the average.
Mr. Price.—According to one of Mr. Manning's

naswers there was a fixed of 287,000 ontile feet a number in 1811, before the drainings was completed it but before the drainings to it is that so, Mr. Marsing to any 131,000 ontile feet. It that so, Mr. Marsing to I never board that. I don't know. Mr. Buruss—I understead that an observation had been taken see to the deathage of the river before the

Mr. Price.—Well I have reason to believe that they have been taken, and this as a result they aboved that the discharge has been nearly doubted since the dreamage. 3016 Mr. BROWN.—The illustration which Mr. Manzing has selected to with regard to the Brooms has to becoming on the question, for he is correspond; with his

unknown quantity.

3007. Mr. Messeeing.—What I wish to say is that
before the dissinge of the Berens district was comjoined there was a larger quantity of water discharged
then since. That was in 1851, the works being in
progross, but about \$5000 scens still required to be

imbed.

3003. Mr. Hamann.—But no thorough drainage.

1000. Here you any room of of what the channel of the errors therew, of a theret distances above ALSY, is now capital disable agong when the larts increacisely adjacent to the properties of an input of short three feet 1—At they are provided to other than it would be very difficult to calculate the shockings of the Barrow raw, with irregain necessors and as undexwe depth. However, I will key it if you give not the question in writing. I will po into 145 months.

3010 Mr. Borus.—With regard to the Duhr's Warr, I would like to sak a quoriton. It is with copiest to the reserver that might be auximationed to the Burrow after the works had been completed. Now, if the Dufach Wair were kept up, that reserver would only be a warr cut in the river, unless the water coreflowed the banks beyond it? Yant would be all.

3011 And the retrestor of the Dake's Wair as a manner of possible the water, or the acceptance, or far mill purposes below, would be of very small one, would it as 1-1-12 Dubb's Warr, if maniform is now, would probably after the milts by keeping up thing hood, but the quantity of additional worth the possible world be imagenized.

3012 Mr. Proc.—Sull it would be something—

No, there would be no pendage beyond the depth at the Dulob Weer at any tume.

3013. I thought the chemical was to be nine flex below the top 1—Yes, but it would be always full. 3014. Mr. Haughten.—World not that make the botton of the reservoir be on a limit with the cast of the notice.

Mr. Price.—Oh, that is a mintake in the perm Mr. Braphton.—I don't think it in a mintake. 3015. Lord Commrows.—What are the president stoppages that you come across in the Typer Europe's

—Bert shall and Monastrevan on the two bays 3910. Supposing these were reassed, what would be the effect generally on the rever—would it haves god effect if they were imply reaszed 1—00, one tunly; it would have a very considerable offset upon the fisched have a very considerable offset upon the fisched have been gone to the conportions of Gorryhand, as May Warkstroop professet at Gorryhand, as May Warkstroop

on sea Modification.

30(8) Mis Serries—There are a good dask of true on the view that Serries—There are a physical property of the view that Serries at Monatherena cody.

30(9) Eard Carrierovas—Well, take a piece observation for the contraction of the contrac

self is very crocked.

3000. Supposing these shellows were ressored, the effect on the banks of the civer would be very great!

—Octainly.

20 3021. Bygone these obscodes we e-removed, wells lib of slin researcy to remove the obstacles on the Lower Barrier to which you would use all offers in the contract of the

at limbs fixeded.

3022. So that posstically these electricals below any and its section that they would have to be removed, and its section that they would have to be removed, to the section of the se

The provided of the property of the property of the provided property of the provided provide

3024. The obstacles were refer to are the eld cared hosts, small shouls and islands—could they be re without any serious capensed-I would like a survey of the Lower Barrow. I really think that if you were to make this particular drainage that it

\$1055. I notice in your projected actions you rear, as-possibly to the Owen are river as bringing down a large ground of all—in point of fact as being the main above, the main Barger below. Would it he possible to make up some of those all treas without doing all the other operations on the man

5026. So us to step the main offender ... the Oversean from doing further damage bereafter, and supposing the aboals were removed !- The objection to said trace a thin-that when they are filled you reast remove the six out of the river, otherwise you will have the sere in charge of the district to morrow would be to see where the efft was coming from up in the mountake, and I would endeavour to restort the your 3027 And not tanks silt trape?—Not make silt I would make steps in the river, and carlesvoer, by protecting high steep banks in the mountains, to provent the course of the rawer being altered 2003. Mr. Servis —I would remain you that there s a good deal of silt consing dawn from the Upper Burow as well as from the Owessan. I have some had up in the mountains, and the saver changes com-

2029. Lord Cappearows -- Well, supposing these proposition you make, and that the shouls were out to draw the district in many ways and allow further

SGSI. You think that the main drainings, as per pond by you, is necessary to give an oxiful to the iffectures t-- Not altogether. There are some porlims of the Barrow astalraent now which reight be drived without at all entrying out this large scheme;

tricts more rapidly, and you will increase the floods n the Barrow. \$162 In the Lone: Barrow !-- In the Upper Bur you and Lower Barrow 2003. Mr. Price.—Mr. Manaing stope at Athywhy does he stop there. The same principle would

st Athy, but the merimum only !- You think that 3005 Exactly not-Well, I have considered that

symmetry very well induced, and I cannot conceive even the possibility of their. 3018 Mr. Précs.—It is a matter of absolute obser-vation that the flood med to take nineteen days to stone down.

Mr. Browing.—Who said that! Mr. Price.—I find it in the criticace Ma Hassann.-No; it is a fortnight I think 3017. Mr. Messesing.—Now I must refer again to this matter. In these discussive conversation references are being constantly made to the flood taking on minoton days or a fortught, or something of that seked to what sime the flood would go off, and I said

probably a fortroght. Then that was stated to be the mount saveling of the kind. I meant that after the flood of the Barrow at all, but that long after the flood had gone down in the Barrow it would take a week or ten days larger to have this go off

3038. Lord Castlarows-I believe you have given

3018. Could you give me any idea of the probable cost of the received of these shouls t—Certainly: I will

2040. Well, the sheals are at Riverstown, Baylough, Birt, Housstoreen, and Athy "-Very wall." 2041. Well, I would also filto you to give me the 3042. Could you give an idea of the probable sort, taking into account the length of the tributaries !- No. Calcust Canners-World the renoval of the shoots

in ease these shoels were removed, or would it be more advisable to destroy the Duke's wein't-That would depend on the cast of doing one or the other. I put weir at Athy. If the miller came and said I will take

5043. Mr. Barus-There was a question I put to annal of the main Barrow is £314,925 1-Yes 3044. This carries is up to the very source of the

Oh, no. 1045. How far does the Great Barrow extend?— Only to Monastereven. I gave in a return to-day of the shoals were removed. I suppose the inhabitants carry up the seven dusts as for an Mountmellick !topud to what you have spoken of about the flood cost of the works on the main giver, the main giver Luttle Barrow, under the influence of the present level

5047. That would be only to Portselington !- That 5048. Lord Custagrows-The question was soled

whether that would enable Portorlogies to get an outfall for its desirage !-- I have never avanual Pertarilitation with regard to its drainage, but if you * Sus Approach.

Mr Monag

lower the river at Porterlington it will certainly be of great advantage to the inhibitants there if they are suffering from want of discusage dering from what do sessioner.

Mr. Bassus—Will you give the probable cost of the
her metions b—You, Maryberough Heath stream. or Killorary river, \$785; Ballybrittes, \$164; the Figile river to the junction of the State river, £16,358; the Pinnery, £2,005; the Stradially river, £856, making a total of £254,001.

Lord Castlatows-Colonel Carden and Mr. Smith from the point where you stop as Perturlington up to Colonel Canors—By taking away these cheels from

1049. Mr. Price.—There were some remarks made with regard to navigation, so if it was the navigation rendered the Lower Barrow mufit to cover off the floois. Now if there were no navigation there at all -ony, it was swept away-the river would not be

river, and there see other places in the flood-lintoo great to allow any silt to lie there. There is more you come to the look, where it has been cought up by sort and places, but unless sensithing was done mon from the extra floods likely to be brought down. 2050. Mr. Hossard -I think before the maximation

water than goes down now Mr. Price.—Yes; and the obstruction to the vivohaving been greatly increased by insufficient bridges and matters of that kind. 3051. Mr. Hassaap,-I have a paper here relation

to Look Erne district. It is Mr Hawkesley's sweet Mr. Price is engaged upon the drainings there, and I to the sufficiency of Mr. Proofs plans. He had estimated that a Bible over half a cubic feet per now per minute—decimal six per sees per minute. Mr. Hawkenby in his report states that if this, I think it rurbt to mention it

3002. Sir Jony McKneger -- You must remember an immerate lake. I suppose it is about twenty make long 3053. Mr. Hassanto-Lower Lough Erne is about

3054. Sin John McKentie, -Therefore was no that the case is searcely a parallel. 3055. Mr. Hannaux.—But this refers to the Upper Lake, and it is really not a very dissiprity, come to This report has reference to the discharge at Lard Castagrows.—I don't think that we can get any further evidence to couble us to carry out the

Mr. Barras -- It does not corne to me to respect say further evidence We have given an concretently to the supporters and opponents to expense views, and I don't think we need now more evidence

Thus closed the public sitting.

APPENDIX.

APPENDIX No. 1.

REPORT to the Commissioners of Puelic Works, Ishland, on the Drainesce of the Layes along the River Rakdow, and its Tributalties—By R. Massurg, M. Isbl. U.K., Chief Regimer; and M. Teodas Fuelscenal, C.E., on the Valutation of the Plooses and Systems Layes.

The esteduces best of the lives flavore entity in the content of the "special form the of the Great sentent rate in present from the of the Great sententine, the height of which at the arms of the same of the content of the content

To the Figure are tributery the Philipsiums, Cashina, and State Revers.

From Merastherwan the Burrow flows in a southerly direction to Athy, having been joined in its corner between these towns by the Phinopy, Killestry, Strudbally, and Timogue Rivers and several other streams, the best of the designment at Adv. Several other streams, the total confessions at Adv. Several other streams.

accurate variance mines.
The length of the River Barrow from its source to
Athy is 17 miles, and thus of the Figile, from the
Giantalasam River to its purcison with the Barrow
above Monastervan, in 19 miles.
In this very large descript there are only two cases

under the provisions of the Denimop, Ant. One on the Shine River, on the upper part of which the Shine River, on the upper part of which the Shine River (a bunch of the Finary) called the KS. Shine Datrick. In the Rothangan Distant 8,865 acres, and in the Kddore Dustrick 2,546 acres were drained as the Kddore Dustrick 2,546 acres were drained.

one District. In the Hathangas District 8,955 acres, and in the Kildere District 2,958 acres were drained or improved.

By Mr. Pitagaraid's recent survey it appears that the quantity of Booled and injured hand still respiring improvement within the watershed of the Barrow

I To propose works for effecting this improvement.

II To estimate the assists of meany measurity to be expensed on their exception, and IRI, To compute that expensions with the improved value of the hadden

1. The first step towards designing drainage weeks in obviously a determination of the maximum quantities of order with the internation of the maximum quantities of water which it is necessary to deal with The order of the proportion of the pr

of white desharged by a great flood, of white whether, on conditions are supported from of Public Works, on conridential control of the supported flood of the related observed discharge of the property of supported spranding of water to be deal; with in high floods as optimistic to the discharge of half ain rate of real to treatly four burses off the greened, which is equivalent to 125 could fort per minute per aser. To managers observations made during the execution of the works andre the Astronal Demany Acts alrewed then, 41-dough that rule amplet be rolled on for estebanous to the castern part to Heisel on the ested part to Desirably the Heisel on the ested part and a state of the ested part of the state part of the state flat of the part of the ested part of the ested part of the ested that the part of the ested part of the e

lake surface, dec., de:
Us nare then thirty years ago since I designed
the weeks day two distincts in the west of Brekhnel,
which I estimated that disheling at 1.09 and 388
colles fact per minute per agre, observations on the
antial dishelings after completion of the weeks give
1.99 and 2.55 only fact respectively. As the seterial
distings were precented dishelings were deserved

varying from 1 is 13 extent feet.

The Shanger at Killater, with 3,560,000 access of saichment and comparestion reservoirs of 50,000 acres (or 4,5 parts of the saifte cashinants), has a reason more discharge of 1,000,000 cubic feet per minute, or 0,855 cubic feet per minute, or 0,855 cubic feet per minute, or

The Rever Bailer at Necess, instructively below the summore reservoir of Length Newly, shadward distinct long the food of February, 1877, 685,000 entitle feet of 10 Tebruary, 1878, 1

in a Report made in the year 1883 to the Form Court off of Manchester, gove several instances, both in England and Seedand, where the disabatage from severveying an extend and statistical measurated to firm if the several content of the several content of the several species (slid that is a much preferable to bette say retinate of discharge on a consideration of observations made in strate soon, when they are available, than to feemal there as the quentity of similarity

rection use expressions. In this case it is admissionly that a continued series of observations of the discharge of the Greak Reseas. at Feebane, about trensity makes to the versioned of the Eurore Boson, have been under during the last firstly years by the list Mr. Kans, who has mappined as not of tables in which the maximum and minimum, the contract of tables in which the maximum and minimum, the contract of tables in which the maximum and minimum.

From those it appears that the greatest, need, one similarism anaeral minfulls were 30 90 inches, 27 04 inches, and 14-42 inches; and the greatest minfull in Security Super burse was 200, which secured in the

mouth of June, 1877.
The area of the Resean Bosin at Farbean in 235,232 nones, and the greatest observed discharge was 267,477 onlide feet per minute, being 0-952 collide feet, or neasily 1 outle foot pea area.

a 1 since not per news.
On full consideration of all the facts stated, I am of a common that the greatest flood which may be expected to pass Athy Backgo will never exceed \$00,000 onbio feet per numete; and infect if cutrangularny floois,

which take place result and at long intervals be excluded, a great winter food will not exceed 350,000

cable feet yer minute.

I here, however, thereght it predent to design the
channel fee the larger quantity.

It will be nam by reference to the sections attended
to this report that the firstnessions of the land at the
newer wart of both the Barrows and the Pecilis vives

as very assen-Berwan Bathaoffey and Perturitagion Bridge on the Barrow, a distince of about a readers unlike, there Barrow, a distince of about the readers unlike there Barrow, a distance of about the und a half makes, there in a full of 35 feet. I estimate the distance as free, a barrow of the control of the control of the control of 35 feet. I estimate the distance as free, asking the quantity gradually low down to Muniaccess, where it is estimated at the rate of I fact

per fere.

The next question to be determined to the size and inclination of chemical necessary to discharge the estimated quantity of water without formy to the

commend quantity of water without injury to the lands.

The necessary enkembtions have been made on principles laid down and observations made by Du. Bent,

About the same time MM. Durry and Bank proved that it Was accessive to be it for consideration the treatment of the leaf of the channel which Da Boot supposed had to effect on the velocity of the water, and about fifteen years ago Herr Kutter callocated a tumber of experientates protessive yaste in England. America, such on the continues of the contract of Europe, and proposed agreest with the multi-treatment of Europe, and proposed and proposed and provide the contract of the contract of

quintizen on this soliject, but so much memod accumulbefore presenting the shipowing tables of the dimension proposed for the principal rivercourses, and the quatities of water they are estimated to descharge Tax Reven Bannow.

		Can	1961	-8	Quan
Basco.	Cadeb- Messi.	Sot- inm Feet	Digith	Task per	Too per mass
in r cel to Transmin-bridge, we min-bridge to Germana, in the Common to Transmin, provinciant to Transmin, principles to Transmin, principles to Transmin, principles to Depropri, effects to Educationers principles to Stransmin, to common to Transmin, To co.	Acces. 18,360 94,260 94,260 162,900 162,900 274,000 812,600 954,400 900,738	24 90 90 90 90 190 190 163 163	おかの 日本の日本の 日 日本	1 12 40 10 9 6 2 4 9 7 4 9 1 20 1 7 8 1 33 1 33	94,80 94,30 139,70 190,80 100,80 944,80 107,80 315,0 411,0
Name of the state of the state of the	Character	-	-	-	_

		Che	and,	-3	Que
React	Outsto- ment	Buc- tous Fort	Depth Feet	York per a	Fee per manar
	Apres.				
Gladelanu Elter to Curbulang Bridge Outbridge Estings to Edminister	15,600	11	1	42	25,00
Bridge, Roleumper Deader to Cloubel-	12,000	12	7	1.3	29,79
logo Teldgo, Claudadione Diddes to Derry-	55,004	56	7	1.5	63.64
gnerica Deldys, Decreases a lighter to Medi-	64,000	15	1	16	15,71
pone Bridge, Military Bridge to Janeton of	11,700	39	7	30	96.71
	11,000	42	14	213	174,00
Junctice of Cudden Street to Burrey,	147,430	05	12	11	118,00

Norm.—The safe slope of the Chemical have loss takes as t to 1.

If the quantities given in the tables he compared with those calculated by Hore Kutter's from the both hose rest that they do not very from each other more than the results of the latter do from the experiments on which is was founded.

The summany thought to desire the vessions of the control of the c

are there explained in any quantity in we manage, as it the case of present at Periordingsten.

I have designed the elements so that the velocity of the processor of the Steve Borrow which require attention; manage the interference with maliprover and managentary.

Within the limits of the distinct amount to be

togetered where see allegoleter versury fewer malife can trust where where he has codeped for the purpose of govern or wait readyr. In most codes the hash never to wait readyr. In most code with that hash been absoluted, we are rost as the see allegolete. In four case to basic us of clocks I can have been absolute to the constraint of the constitution whether it well be taken to purchase. In five case is well be a matter for constitution whether it well be taken to purchase of the constitution whether it will be taken to purchase. In five cases we will be a made in constitution whether the constitution of the constitution of the sealing the head were worth must be ensured for adapting the head well-worth as worth must be ensured for a departing and the sealing all the many to be not obtained by a ready and the waiter power see the cost of according with five in manufactors would must carried and with the cost of according to the cost of according with the cost of according to the c

1 can supply particulars of these mills when required but at present it is unnecessary to enter into more detail.

groused by lines of mavigation at two points, one is at Monavarovan where the Grand Const is carried by an adviduct over the river, here there our or interference whotever with the traffe, the operations being confined to the deepening of the river-channel under the agreedant, and to any understaning which may be accessory to the pions and abutments of that structure

These works do not present any great difficulty but they must be executed with care so us to prevent About half a mile below Ather a mariestion weigh

has been constructed obliquely across the river for the rurpose of connecting the Barrow Navaration. At present in great floods inconvenience to the pavigation must arm from two cames-first, the variation in the mavigation level in the reach of the

mile below the weir, and seemily, by the current the tellboy of the 28th look of the Grand Canal. Apprehenmons have been expressed that the relief

so the Barrow, were exaggranted but even if this were not so I bug to observe that injury to navigation adjustment of the regimen of the river In the present case the navigation will be materially

The following Table gives the necessary particulars under Heads II and III, of this Reports— TABLE showing the Entirested Cost of the proposed

name of Lineary		Grow	200 DOM:	Wests	Fer serv
		4	1.6		
GREAT BARROW, -	1,100	1,000	4.5	204,816	N 1 4
Tribaterico					
Placery Brur,	7,416	1,610	2 2	25,540	2 6 1
Editor	325	294	2.5	3,865	2 2 2
Bellylerina, -	1,322	217	1 .	1,725	2 12 2
Theorem.					
Kyle.	437	69	4 4	111	9 13 18
Service Dankey,	33,846	1,795	4.2	98,147	6 35 2
Triume-	1.865	445	4.1	13 771	9 15 20
Owners	7.899	161		12,610	22 3 5
ORNORS I	1,000	241			
Pictur Brown	4,216	3,/19	3 18	74,666	0 15 à
Tribatorio					
Osolowa,	5,845	581	3.6	13,314	2.2.7
55x54,	2,500	294	11	7,4114	0 39 0 0 39 0
Philipson, .	3,200	147		15,244	+ 39 +

Office of Public Works, Dublin,

15th June, 1885.

BARROW DRAINAGE. Survey and Valuation Offices. Dablin, 16th June, 1885.

Sra,—I have completed my valuation of the "Plooded and Injured Lands" of the river Barrow and its tributaries, from Clarehill and Timashineh beniges in the Queen's County to the town of Athy in the County The two closes of lands are delimented on the se-

commanying Ordnance maps, with books of reference The leads are extented in the counties of Kildare

45,641s. On 32m. The present agreed value of which I consider to be

The probable moreouse in value I estimate at \$10,035 ids 5d. The distribution between the different counties is on follows:

County of Kalders-In this county there are

Flooded lands contain 6.611a, 6u, 7p, , their present Their probable increase in annual value is estimated

present agreed value is £3,947 4s, 7d, and the probable County of Wieblox.-In this county there are only

value is £26 fo. 7d., and their probable increase will Gazza's Counts.-The flooded and injured lands in

The quantity of flooded lands is 8,893a, In 92, the resent suress value of which is £3,977 12s Od ; the

The injured lands content 7,185a, 12, 10p.; their creant samual value is £3,174.18a, 34, and the con-King's County.—The flooded and injured lands in this county contain 12.871a, in or ; their present

The flooded lands are 7,396a, 2n, 9r, in extent: cir present annual value is £3,352 Sc. Ed., their chable increase in value I estimate at £1,936 19s.

The injured lands contain 5,564s. So. Opresent annual value I consider to be £2,220 17s. fid., d the roubship increase in anough value I estimate £1,056 8s. 10d.

In all the above valuations I have noted on the sup-

(Simol) THOMAS PIPOGRALD. W. B. Spady, Esq.,

Secretary, Board of Works.

APPENDIX No. 2.

Mr. Massing's Report to the Commissioners of Public Words in Ineland on the Present State of the River Samow between the Town of Athy and St. Mulley's,

On the 6th August, 1884, I made a preliminary report to the Board on the drainings of this distract in satisfication of the completion of the voluntion of the lands responsed to be decised. Shortly after the receipt of the voluntion schedule, I furnished a full report on the 18th June, 1886. This report deals only with the draining of the

I furnished a full report on the 18th June, 1886.
This report dealt only with the drainage of the
district above Atby, the works proposed to effect which
terestrated a short distance below that town.
At the meetings held by the Burrow Commissioners
at Atby and Oselow, on the 28th and 39th July lend.

into eigent was very shifty unknown, has main legges, became was expressed by pressue inheracted as the free between Ahiy and Engradstorm that the proposed intervencent's above Ahiy we all as increese the values of shoot, and the registity with which they would be discharged, as to come excess injury to the values of shoot, and the registity with which they would be discharged, as to come excess injury to the values of shoot, and the register, drivings, milipower, and the natifiest shoot, where of expected on the ansate of the river in Its lower work organisations. I was captured to the Beaut of navies or transaction of the

river from Addy decrements, which I completed on the 59th ultimo, and I now beg laste to schede my report thereon.

The length of their part of the river new rader conmitmation, from Addy to the "Senge" at 8th Mulhals.

sidentice, from Athy to the "Seam" at St. Mulliis 45 miles, and has a total full of 109 Sec., which distributed as follows:—

				Case	MSH3N
_	Length X34+1.	Per Hole.	Total	Avur- apt weakh, Miles	Arts.
From Ashy to Corpore,	19	9	24	12	100,507
. Lereguster to Ten-	21	5.5	99	193	25,955
nahaowa, Degradatewn to St.	10	4)	13	14	T,809
Hallin's Early, Lidel from St. Nucleon Lane.	26		300	(318	190,641
to the fours,	1	-	3200	1 19	2,519
	65		1/2		

The river between skips and 8s. Neillin's lock in constant for in mine legals.

There are 2s forth and 2s weirs, the loved at Conference lock and 2s weirs, the loved at Conference lock and 2s weirs, the loved at restandand in the small cells are constant and an expellipt the same failth the reverse that their An expellipt the same failth the reverse that their Market and the same failth of the reverse that their Market and the same failth of the reverse that their of the Institution of Civil Registers of Irrival in the year 1859, which I have inner.

" Biser Eurrosa Navigation.

"The river forms the course of this navigation, copt in a few managers where short (revisions are and a. It extends from Aby, is the county of Khilmo, the first water before the realize called the "Sours," St. Mollin's in the colour of Codeway. ⁶ The works were connected in 1752, seconding to the designs of Mr. Thorses Chart, who proposed to make them aritable for vounds of 70 tests at all seasons, the trive in its then state not having been navigable at certain threas of the veen by wearing more; then 2 or 3 new, Seven liets and the to 1790 under the intensity of the proposed of the contract of the veen been and the to 1790 under the intensitate happening of Mr. Jehn Sample, as Departy Ranghare.

Sensity, a Dyrary Següene.
In the slever weathered year, 2:12,400 hoting,
tern perciously speat under his Novignian Rood,
the Georgeany was hoveryuted, and Mr. William,
the Georgean was hoveryuted, and Mr. William,
"The proposal name by the Groupsey to Perlikeroor,
"The proposal name by the Groupsey to Perlikeroor,
was to resize the view energiated by beaut of 125
toom to memory and 300 toom to winter, with sowing
the common sensity of the person of the control of the
toom of the control of the c

and the second s

the description of the descripti

* Iroh märe.

"The profits in 1813, according to the report sub-mented to Purhament was £2,589 on £76 per mile tage of, the proprietors could not have finled to obtain a for different result, as well by the comcony of con-struction and maintenance as by the general improve-Barrow Naugation passes through a country of great natural farmity, and high cultivation, that it meets

accessible to it, from one extremety, while the port having heen necessary for the development of highly cannot look more than two-thirds of their tennage or

In a treation on Inland Navigation published in 1823 by Mr. Mullim, some, a member of a well known the construction of canala, the following observations are made with reference to the Lague Navigation. "This Navigation partialon of the defects of its time, both as to detion and cost of expention.

"Continuing in the hole of rivers even when Soods, in found generally to be inferior to parallel cuts; but in those rivers subject to a sudden rise in their waters, the idea of making them permonently navigable at a remanerative cost is almost hopeless,

"These theories," he continues, "applying almost university are realized in our rivers, which have been rendered partially navigable by an outlay for more banks for several menths us each successive year, to the country.

On my series in Corlew on the 4th elto., Mr.

of the cettre Navagation usale in the year 1813 by Mr. John Molloy, and the other a book of training mode in the year 1853 by Mr. Mulvany from the

3 to 4 feet, which was proposed to be despected to 5 feet. Through Asizon Cazal from 4 to 7 feet, at the Greese giver 3 feet 8 mehes to 5 feet, apposite the Lerr river from 3 to 4 feet, with rushes shown in the tion of and and gravel, over which there was only Down to Cloghrenan mill, there were saveral should

but afterwards halls a short distance above it; and above and below Milford lock were shoals doubled A red has in drawn shops 2 fees above the water

necessary cuttings of shoots, to have a regular depth of

On Mr. Mairway's tracings (1855), the depth from Athy bedge to the junction of the Grand Canal is town from 3 feet ten inches to 5 feet 9 inches. Down-3 feet 10 makes to 8 feet 1 mak, and above and below Corlow the laux depth shows as 4 feet, to Millfard error between Mortansown and Cloghranan, and two others between the last named place and Million!

that the soundings were taken on the setting correcof the Navigotion, and do not represent the store of which shows that (more than thirty years need it had expanding he also proposed exercising in the Bath

To enable me to report on the actual state of the Spenking generally I may say that the state of the

forty years later when Mr. Malvany made his surrer, and in places whene Mr. Hollor showed cells reeds or rushes in the river, new should have been

Daring my impection I observed this progress of gradual accretion going on its many materious. I form-bullration, 6 or 7 feet long growing in the rive-which will no doubt from in each case a modern for a by boards permanently fixed on the welly. I also old comal boots which undoubtedly ossue an increase

mission with a copy of the Charter granted to the This Charter makes no provision for the mainten

ance or conservance of the over obsanch in regard to so far as I can see, place any obligation on the Borrow

The Company may therefore domand that no works for the improvement of the river above Athy shall be understan, which may injust their property, and way to granted that their rest obtacts for my constituted that their rest obtacts for my constituted that their rest obtacts for my constituted that their rest of the constitute of their rest of their rest

an in the supposed of the sum of the wire should be character of the wire should be character of other such as the sum of the sum of

the foot of M.S. Canhivella still, not of ourse analysis from a shine should be possible the narrigation within, and the canal back from the same that the sill should be formed to be a simple still the same and the same are facilities as the first the same are facilities as the same are facilities as the same are facilities as the same are same as the same are wrater facilities. Furthering our should be same and worth should be same and the same and the same considerable durage, readering the disposory, while the considerable should be same and the same and the same considerable durage, readering the disposory, while and the same are same and the same and the same are same and the same and the same considerable durage, readering the same and the same are same and the same and the same considerable durage, readering the same and the same are same and the same and the same and the same and the same are same and the same are same are same and the same are sa

no by the dispensiony detect.

Sixthly—At Corlow scouring stained should be
placed in the were, the permeanently fixed brawfischantals
be removed, and should be replaced in the meterost of
the sailt power with movable boards, which could be

Berenthly—Some conservancy authority should be reacted, which would have power to ensure the masswal of all weeks of boats and other characteristics to the on discharge of fields.

Supply and the second of the control of the contro

men 3 for a community or of motion of the Co-San Apparatum of the 1 for New Low. In the 1 for the property of the 1 for New Low. In the 1 for the property of the 1 for New Low. In the 1 for the 1

One of the members of the Commission is an embert hydraulte engineer to whom I shall be very happy to give any further sufficessitions in my pos or if he requires

(Signed) Rosent Markins, M. Inst. C.E., Chief Enginee Office of Public Works, Dablin. October 13th, 1885.

PPENDIX No S.

Mr. Commissioner Hassand's, C.E., Report on the River Barrow Brainage. The Upper Barrow.

The Upper Berrow of Arby corres of the draining of 400,000 eres, the relat of the growing three bases about 500 feet above the sea at low water. The about 500 feet above the sea at low water. The about of the text feet is which light hardy by the collision of the text of the collision of the sea of the collision of the collisio

periodally subnerged, this however, may to seen critical be seened by water from the Einstangen dituits, consequent on the completion of the discharger and the control of the control of the discharger and the control of the control of the concern, \$20,000 areas his below the 400 first level, seen of 1, instead, and standing to 200 first—the entry of 1, instead, and standing to 200 first—the entry Montanethick, adjusted to the courses of the rever Barrow and the Orenous Steam, where there is an east of short \$400 carea there has \$1,000 first level. With the exception, the duringer was an art stangive table hand, the shellow depressions in which the watercourses occur being separated by flat tracts of log, and colitizated lands of low elevation and gentle

The prological formation of the whole basis, exec-

It is close, under these conditions, that rain falling

the once after the enlargement and deepening of the outfull channels. The catchment basin is divided into upper and lower

streven, where one of the principal obstructions is situate. The lower district less an area of 116,000

Under ordinary conditions of minfall, the dood

muned away, before that from the upper district had longed years, or us that of a second flood being enough by a heavy fall of rum occurring at a short interval after a preceding one, that the whole district would be It was stated to evidence, that maximum fixed at

not occur, until about a week after the communication ment of the sam whose autors it, and that the secu-mulated water, due to the flooding of the land above Athy as not checkerged in less than a fortaight, or

These facts coupled with the naturally flut configur of the drainage works, water would still continue to - 900 435,000 cubos feet. This is conjected to evound from 408,000 scros; but this death at acou

Of the above-mentioned 916,435,000 cuite for of by Mr. Magaing, would contain up to fature flood

charged at an average rate of 117,000 cable feet nec-From observations made by me on the ground and the fall of the river, as given by Mr. Manning, it is

heavy flood to a height sufficient to submerge the lands adjacent to un banks to a depth of three feet, it is then discharging short 200,000 cubic feet per minute = 49 subso feet per sere per minute. The River Becaus Drainage District afgains that of the Barrow, and is of similar character, consisting of cultivated lands of low elevation and gentle tlapes alternating with flat peat bogs, and at the south in the Barrow basin at its south-western occurs and adjoining it a small district of elevated land in the Shove Bloom Mountains of the Old Red sandstone formation, 7,500 serse in extent lying above the 1,600 feet level. The two districts commerc thus:

Tivir Terms, 205,530, Error Rovers, 406,000. 9,000 series The Brown District lies to the north-west of the

greater than in the Burrow district. I soums it. known thus, under similar conditions, the food disfloor discharge in 50 years from the Broom district as Ferbane, as given by Mr. Manning, was 267,477 cabbs foot per minute, or 932 cabic foot per sons per minute. This occurred on the 7th January, 1851, there having been a ratifall of 88 of an inch on the The next greatest flood discharges having been as

. 255,000. . 554 1976.

To will be seen from the above reterms that, in a period of 30 years after the completion of the arterial cubic feet per same per minute occurred three times only, and that on two out of the three occusions the excess was very slight—indeed, in 25 consecutive It is remarkable that in June, 1877, a minfull of

the centre of the desirage area, and that thus is the Although no positive rule or formule has in this aghiest been arrived at, I am of opinion, taking into

soons analysis of the rear per minutes w. Ally.

I consider, wherefore, that, if provision is made for this fixed discharge at Ally, it will be ample and until excit to protect the new submerged leases from the

of time, which occur in winter, and would then unb-

on the 8th by randalts of 38 and 35 inches respec-I am of opinion that the dminage of the Upper Bur-By this armagement the Duko's wen at Athy may track braign and navigation were allowing this to be

But the new writ with its saxihary shaloes will be a and supervision. Under those of rematances, as this will as well as Arches mill, is greatly impeded by back

Mr. Manning's estimate of £474,664, including the

Much apprehension having been carrensed at the lood impounts by Mr. La Turche, Chairman of the Burrow Navigation Company, and by the owners of sells and of own and militing steem retents on the

ax far as I examined the river its channel is in a auxiliar condition to that of the Upper Barrow-it is obstructed by wear areated for the purposes of the exector regetation, and by solecule existing and in course

by the allt beauches of these plants. Two notable instances of this occur as Curkov and at Leischitzhinkar, where

immediately above the bridges owning the voltage river, and of those structures, and exesting floods above them to rise to greater heights than otherwise At Leighfinbridge I was told that a few years ago

the river for some distance above the bridge was cruite bridge, blocking up and rendering abuses useless for the pussings of water, one of its principal arohes. The corn and malting stoom at Carlow, Millford, Loughlisbridge, and Begnalstown, have in all cases so that it is occasionally necessary to form amail samparts of sods and carth to keep the water out of the once even in a new malting store quite recently built at LeighBubridge by Masors. Watson and Butler, seem to be in it any obigration to maintain a specified

As regards an exteripated increase of food water it

This can be dealt with by removing some of the procise renedial measures abould be, and their cost, tion. In my judgment the proposed Drainege Works

October 28th, 1885,





APPENDIX No 4.

Mr. R. MANNING, C.E.

ERFERENCE OF the Coor of the Intercomments of the Main Reven and its Transvarants to the points on each (asseled upon the plan) at which the back water from the main river meets the independent flow of the driberth of the contract of the

Great Burrer Lettle Barrer			t highest	Scools"	of Great	Bernow		\$34,825 17,656	I C
Marybrough I									
Bally best to Se									
Fuyir Brest to									
Bindinly live	w, .								18
								6554 051	7

APPENDIX No. 5.

Orrice of Pulse Weeks, Denies, 13th Joseph, 1884.

BARROW DRAINAGE.

DRAINAGE.

I beg to forward herewith Estimates for the shoals, which I was requested to do by the Chairman of the Commission.

At the same then I beg to observe that, if the work is to be restricted to an expenditure of, say £90,000, I would of ourse way the design to a to give the greatest relial possible, and the sort of the work of the twenty points meaned would be very different from that one great.

I um, tir, your obelient servant,

(Signed,) Ros. Marking, Chief Engineer

Barow Destropy Commission.

BARROW DRAINAGE

BARROW DRAINAGE

Estimate for the encovation of the under mentioned Shouls, to the full directakes given on the Plans and Sactions

Cost of Boylough sheel, 4,823 16 0 0 Hert sheel, 41,177 0 0 Measuirs own sheel, 14,019 2 0 Akly sheel, 28,765 6 4

13th January, 1881.

(Signed.) Box. Manyino, Chief Engineer.

APPENDIX No. 6. Survey and Valuation Offices,

35, Gardiner's place, Dublin, 18th January, 1886.

Dam Sin,

Having completed my examination into the objections made to my Valuation, a list of which you

	C0997	mes.		Arra e Inj	t Fieo acol L	ded and radii.	Press	at Aro	ens)	Vrdus.	Probable of the in the Ann		
Katan				10	a. 1,629 5,147	3. T. 3.27 9.0	1	7,000	4 11		£	3 12	

I am, done me, years faithfully, (Survey). Transact Prepare and

J. S. Penny, Bog, on, Secretary,

APPENDIX No. 7.

Action to the Street Comment Comment of Management Comments of the Management of Street Comments of Street C

1	6.4	No.	-	m 14.0	******	0142244577	_		9229
M 19 M 4 10 M 9.	Figure Cologia, and Caramo on the Separabor, fortung a have extracted enterested foresteps in water by the government and management and produce of the Cologia and only a long track recoverable or white Scot Chourse.	Trainfail these hash September 14, 1981; Elser For (Manachered) and Maker Eng- (Marked M., Sangge C. H., Hai Neep, Mr., Leven Solds Mr., 17, 3, and 4, Ridger, of the Hall Solds 4, 4, 6, 7, 8, 9 means considered No. 7 mean tensors and far many control of the Hall Solds 4, 4, 6, 7, 8, 9 means considered No. 7 means the respectable to many control of the Hall Solds 4, 8, 8, 8, 9, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	de Briggery has withdrawn be objection.	Vo. Marray and additional and the contrate of the day that harmed better he will be very far me, but lift word that he would write to me on the matter of the edge-fortisting in he has not seen as it in the word that he would write to me on the matter of the seed that when we would be the best as a little of opinion that the marting on maps and the values were controlly.	Assumed in Committy of one of the Medical Interface of the Medical Inte	And the state of t	per accumulation to No. 4	Mr. Saytao has withdown in objections	Mr. Sankhano ovan Darman, dod 15tr Staulhause werde Degover, taand efnish shot beden shad hashi "Sarahashi, Toosiflor taan to be indicated for must of grapes outfull, not warm in magneti in de Horman Dean; the Dodding, Mr. Sankhano status, best and in Baggiorni; I kee redicced the animated Socrosse in rathe he per start, in consumence of basis desired.
Nukeja ad Otopotacona.		Tourisate of Februs Bog (Varantesovis), and Ribon Dog (Ballyachill), not has property, Joy Mr. B. M. Bells, Arm for Bellyon, now that be helds. Valuation too- high.	Part dawn as consists more of Dersymmer than also noticelly	Congress belongs to Mr. Hume, and not to Lord Devestion, as Sabadale about. Operant belongs to Lord Solon.	Area of finded and televed land, as a appear in Sebelah. Is inscense. No could given for an outest next while Mr. Georin furth.	Ames is Solution of lead fooded to Management recognitions of Charge Classe belongs to Mr. C. Spind, and not no Mic Offices.	Objects to Valuation past on Ether Rose (Monesterens)	Combined of Newton and Balogomerol are just down as balonging to Louis Downshire and Proteinington, respec- tively; they really belong to Mr. Stor, Oc. States are seen	Dippers is second jost dorm a signed la Derreta. Secon these to more of Regions Roodes, though 50 acces see put down. Velonicot too legit.
Youns of Present Objecting.	Toler B. Garrey, for East of Valuaties too high Rooms.	Bolont Lissa,	Mr Milgoury, for Miss S. H. E.	ray, for the Truston or of Demokin.	3. W. Walter (Solidae), for July Greefin	Gergs Gheer,	T. R. Murray, for the Trustees of	Steffogton Strythe,	Janes Sepacer Sealtern,
Page Illages of Reconstru	12 12 25	38 med 27.	Studen.	s	8	8	8	59,45	2
Paragon Paragon Paragon		-	-	-			*	3	

Ì	Endezea	Nages of Posses Objecting.	Nazas of Objection	10.10000000000000000000000000000000000
1	12	P. White (Tenant),	States bit holding (120 acros), in the steerland of Transon, is not in Schedule, though Booked and hysred.	Mr. Whites Farm is included in Scholath, under Net 1, 6, 7, 6, 9, Truessa.
i+	25 25	Dr. J. Tabetam,	States are cent of bytrol, and flooded isn's pet down in Solodale, as regards he property, is aventable.	Exercised the boundaries of feeded was infriend tracts as the 11th September, accompanied by Mrs. Waren. Dr. Einstein's streets, the care of feeded hard is correct, that of the tract last Lave forcessed as noy streeties was particularly directed to the collision parts by Set. Where.
81	\$	Mr. Sichay Jonings	The Townlord of Science belongs to the Reps. of Major. Americous, and not to Goneel Gules, as put down it.	Scholate corrected.
ON .	241, 165, 165	Mr. G. U. Townshead, So General Galan.	Scholden. Landsoff near is Gride and Dey. Nathersbore does not have to General General Scholder on High American, Ohly profice of Ault-beings to Georgia Gride. Shows they are sharped with leads which would just be beaufind	2. A second control for the control for th
	- 1	Charles Champ (objects by 100se)	Checks. Champ (exposur by States answer of hard shocket and injured to everythese), where λ	Ecusios) these lacts on 19th September, assummed by Mr. Chang. I here yelesed the gas of the knowled bath by 5a. 1s. 30e; the near of the hyperic built is transmised by the summer.
	b	B. M. Ball (objects by icties), .	Objects to deeded area set down to Dwarcon, Ballybech, Edifered and Zehen Beg. States be owned Dwarcow, or Moree Locing, Edietr Seg and port of Ballybech.	The quantity of brinned and shooled leads is seened; as the lat September this variant of the attenue between Bloom Leavy, Ching Bay, and Malyson, was not keed with this press. No. 1, Monta Leag, I have been also by Tax, for or of negocomber and estions begin the rates of No. 1 will be feet. But the present second, who of Pal 1: 104, electrode
	8	T. B. Moure, for Treatest of Marquis of Devratities.	T. B. Marray, for Transac of Objects to Valuation put on Essen Mose (Ballyrahift), Marquis of Derroditio.	The remode who for 11 the 64. The remode by 12 th of 4. The remode by 12 th of 4. The remode in the formulant I have increased by 12 th each, consider the 6. The Lib., among 5.5 aren, present while 12 th of 12 th of 12 th of 12 th of 12 th order, around while 12 th of 12 th of 12 th of 13 some present around 14 th of 25 th of 15 th orders of some last of 14 th order present around 14 th of 25 th of 15 th orders of 12 th orders 15 th order present around 14 th of 25 th orders of 12 th order 12 th orders 15 th order 15 th order 15 th orders 15 th order 15 th order 15 th orders 15 th order 15 th order 15 th orders 15 th order 15 th order 15 th orders 15 th order 15 th order 15 th orders 15 th order 15 th order 15 th orders 15 th order 15 th order 15 th orders 15 th order 15 th o
n	-	B. Digby, Se Baps, of Captain	B. Digly, Sc. Ego. of Copain Towaked of Closel, retarned as belonging to Load	The Treatment takes the Street of the Street
**	1	R. Digly, for Load Digly, .	Dupy, sheets he Capton A. Howard Bary. Onyote to Valuette yet on Ballyawilla.	The conful from this is through Major Yoo's hard of Bullyneacousm; this is choled with model and not! 10th Delty needs two cattering under public could, have would be unfor- ted to the state of the confusion concludity the model in we may seek how done of it was
	1	Lord Seco (Caskins),	1	related the intermed value by it, we note the present increased whose heavily by the life of the post of 22 who is if I have been sentented to some of the injured land, winNo. 10, 32 serve, present whose of the 62, increased who for 10 to 66.

APPENDIX No. 7-continued,

			APPENDIX No. 7-continued.	knod,
			- Quanta Countr.	
Page Walanton Schooling	Market Market Strategy	State of Peress Osmelles	Statem of Objections.	S S S S S S S S S S S S S S S S S S S
*	32 114 23		Osjeta sa sastignos na Osodal, nak importol valas patan Bookky Park nad Garran.	A. The Cong. for William (Output to the Constant of State
n	E E	Str. Alles Wolch.	Opicio to valunino per de territado, Exceledello, Mende formis, Corrates and Tech.	The property of the property o
2 4 5	34 and 25	Toronsed Theath, for Mr. Aftir, Captalo Coshy, and Lord Lanfathers	Ballmoode and Transparper daves in Schedule as council by Cognitic Council, it could be being a local Landauma- State Ballmoode (overed by Lord Landauma-) is over Booked. Objects to welcome to the New Montaland and Translated (Mrs. Alast's property) as too logic.	The commodity of Bullscodin and Theogra is corrected in Schadbe, visited Bullstrawker, or 2018 September in the protect of the last of high produced and lighted as wormed in Schooling in correct. Therefore, it was facilitied in Schooling in the commodity of the september in the commodity section in value on Symmetria in the last of the Commodities in th
**	2	Mr. A. Pranks, for Lord Castle- torn.	Lash of Re Ha gat does as eased by Captin Color- biology is Loof Statemen. Nationality is not Loof Captionary properly people gat does in Soluthia as such.	which scored to use member 20 fig. 2022 Released to "given it for the charter, using longer, first of the charter, using longer, Ribert 5, Costander, wall for 50 given in order 3 sections in the charter, and the 50 given in the charter of the cha
1	Ei.	A. Byrne (tecant of R. Warber-	A. Byrne (tecard of R. Warber. States by in put doren in Scholdels as a teasts to Loyd Convected in Scholdels, ten.)	Connected in Subshible.

The Demon's assumed in covers to a Bar these stages assumed assumed the constraints of th contrained this systemland on this Stith Ortsabo, accordinated by the response, the lands are exceeding sandol, and the inhallment are very constant in face, I single assertanced laneaus, the total will now be 14% in 200, posses with 47% for \$4, stimulated mechanical to the total will now be 14% in 200, posses with 47% and 45%, stimulated mechanical and the stimulated of the stimulated of the stimulated of the stimulated of the stimulated mechanical and the stimulated of examined the Tricone Bleer on the 20th October, relative to Cobesi Corbo's remerbs

Asked the cases integrily are without men has been of the proposition that this mappy was to be dull with no are nearly entrange. It desired to be seen the entry of set of the princed hash such on the marke entrange. It desired to be seen to see the foreign the princed hash such of the wint. This has be required by K we dull acts be fifted no prince ingressment such as their preting of the different entract, e.g. Mo. 1, A, A, T, B, pinc dif-rent proposed to the present of the different entract, e.g. Mo. 1, A, A, T, B, pinc dif-princed into pay 100 pinc before the stand over the brain included in those numbers are desired into the Tologov before the stand over the principle of the constant of

Examined then temperate on the state Orector, recomposed by the Stateman Arbeit Mar-of Farging of the Existence or contains the containing the state of Persolator. These spectra to is arthur that the that Denger, and ecceptoricly is two states of the Schaller of the state of St

States Toerbasis of Basilesghan and Choresfer would be little benefied by Dermon.

O. Sharnon, for Manus, Moore,

: 3 2

3CHEDULE-confess

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Affirme belongs to E. B. Senth, Eq. T. have struck out the part objected to, in Scholder, Da. Ba. Or. manual value of 14: 94, optioned theorem 45 14: 34

terrors, cepts to be excluded. Names of proprieters should be littereth and McKelli, Merce. Objects to smooth of lead wated to be fooded and inferred in Ballymanna, Ocered, and Durrybrock, same Portres is all tatheon. States there is an ownerbarge made to Macidoea.

William Denny, toorak Strend R. S. Smith. Sydney Joneslogs.

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The out assists a transpose milk research as a trader could be included in 300 closes. Only our statements of the second of the

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16th Neveraher, 1885.

ä

William Dererall, Celoni Curden,

APPENDIX No.7-continued.

		3	THE BARROW DEA	VINA	SE COMMISS	ION.	
党上京大学出版	Name in Schoolste second-sold. There as exceeded those been in concease with My Oresty	Colossa, and an outlement to any equition that they should be included in the Difficility and that the rates are mediatals (Constitute) Bog can be desired independent of the Riggius.	At a st. of afficiency for an incision, equicity felour, the conflicted by the control of a state of afficiency and a state of a sta	The termine on the large pointed out the extent of the flooded large, which I helicus to be cornect, I have reduced the present value ICI IM, Set, to £35 17a, 3d	and and in March property to expert with \$65 Ordinary (No. 10 to Alten His is Solated as Once of the Older and March Property of the Older with \$65 Ordinary (No. 10 to Alten His is Solated as Once of the Older and March Property of the Older and March Property of Comments (March March Property of Comments (March March Marc	and it origing be suffer of the direct for the original country present for the original country present for the original country present in the original country present for the original country or the original	Mor. Misself was set table to moneyany one on my scored inspection of this preparity, and calculated the expression and the berth. Helper and Highligh the terr. Therefore the High market of the impact and should be table, the fine-like of cheldy carried for best to the market and the desire on the market of the fine-like one to have a finite man expect, the "buckmon" hearty retrieved for a most transfer to the favorer finite table to fill.
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Zhen Maryles	THE STREET		4 4	3	8 3 5	15 22 21	\$3.10 GE
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n Ropine, for Thousa	William Hopkins, for Thomas Objects to smouth set down as injured in Black Hall.	The fogured hade not correctly marked.
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28th Nonmiber, 1885.

gued), THOKAS FITZGERALD.

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APPENDIX No. 8. BARROW NAVIGATION COMPANY.

PARTICULARS of Obstructions to Traffic, for 10 Years ending November, 1885.

Flood,	$\overline{}$			
		92 Feb., 1876, .	29 Feb., 1876.	No surpeasion of traffic.
Flood		11 Dos. 1876	18 Dec., 1876, .	Trulic stopped one week.
Flood,		3 Jan., 1877, .	9 Jan., 1877, .	Stores flooded; there boats lying broken at bridge Carlow; equal to flood, December, 1872.
Flood,		16 April, 1877, .	23 April, 1877, .	Bosts stopped at Graig.
Flood,		17 Sept., 1877, .	24 Sept., 1877, .	Truffic delayed.
Plood,		14 Nov., 1877, ,	3 Dec. 1877, .	This food was reported as rising on 29th October and appears to have reached its maximum heigh about 16th November, and reported as falling or 3rd December.
Flood and Ice,		31 Dec., 1877, .	21 Jun., 1878, .	Floods reported from 10th December to 7th January 1878, and ice from 18th January to 21st January 1878. Truffe stopped on 31st December.
Low Water,		6 April, 1878, .	13 April, 1878, .	Unprovidenced; looks agreesed; attributed to long continued morth winds.
Flood,		18 May, 1878, .	25 May, 1878, .	Sudden rise of four feet; houlege difficult.
Flood,		15 June, 1878, .	25 June, 1878, .	Traffic stopped.
Low Water,		3 August, 1878, .	10 August, 1878,	Bosts aground—carrying over 25 tons.
Ior, .		28 Dec., 1878, .	18 Jun., 1879, .	Truffis stopped.
Flood,		17 Feb., 1879, .	24 Feb., 1879, .	Truffe much impeded.
Flood,		16 June, 1879, .	23 June, 1879, .	Truffe stopped.
Flood,		7 Sept., 1879, .	52 Sept., 1879, .	Traffic stopped.
Ice,		8 Dec., 1879, .	15 Dec., 1879, .	Traffic stopped.
Flood,		28 Dec., 1880, .	4 Jan., 1851, .	No suspension.
Zor,		18 Jan., 1881, .	28 Jan., 1881, .	Truffic stopped.
Flood,		12 Feb., 1881, .	17 Feb., 1881, .	Traffic stopped.
Flood,		5 Dec., 1881, .	19 Dec., 1881, .	No suspension.
Flood,		July, 1882, .	July, 1882, .	No suspension.
Flood,		14 Nov., 1882, .	21 Nov., 1882, .	No surpension.
Flood,		30 Dea, 1883, .	6 Jan., 1885, .	No suspension.
Flood,		3 Feb., 1888, .	17 Feb., 1888, .	Traffic suspended; highest food since 1878.
Flood, . ,		2 Feb., 1884, .	23 Feb., 1884, .	-
Low water, ,		28 June, 1884, .	5 Dec., 1884, .	Serious inconvenience to traffic; bosts tennage averaging nineteen tens
Flood,		May, 1885,	A few days dura-	No inconvenience to traffic.

CARLOW, 4th December, 1885.

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